

User's Manual



Falcon 4 Plus/ Falcon 6 Plus Series



FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a CLASS A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

EMS AND EMI COMPLIANCE STATEMENT FOR EUROPEAN USERS

This equipment has been tested and passed with the requirements relating to electromagnetic compatibility based on the standards EN 55022:1998+A1:2000+A2:2003, CISPR 22 , Class A EN 55024:1998+A1:2001+A2:2003, IEC 61000- 4 Series EN 61000-3-2 / 2000 & EN 61000-3-3 / 1995. The equipment also tested and passed in accordance with the European Standard EN55022 for the both Radiated and Conducted emissions limits.

FALCON PLUS SERIES TO WHICH THIS DECLARATION RELATES IS IN CONFORMITY WITH THE FOLLOWING STANDARDS

EN55022 : 1998, CISPR 22, Class A / EN55024 : 1998 IEC 61000-4 Serial / EN61000-3-2 : 2000 / EN 6100-3-3 : 1995 / CFR 47, Part 15/CISPR 22 3rd Edition : 1997, Class A / ANSI C63.4 : 2001 / CNS 13438 / IEC60950-1 : 2001 / GB4943 : 2001 / GB9254 : 1998 / GB17625.1 : 2003 / EN60950-1 : 2001

CAUTION

Danger of explosion if battery is incorrectly replaced
Replace only with the equivalent type recommended by the manufacture.
Dispose of used batteries according to the manufacturer's instructions.

Specifications are subject to change without notice.

Safety Instructions

Bitte die Sicherheitshinweise sorgfältig lesen und für später aufheben.

1. Die Geräte nicht der Feuchtigkeit aussetzen.
2. Bevor Sie die Geräte ans Stromnetz anschließen, vergewissern Sie sich, dass die Spannung des Geräts mit der Netzspannung übereinstimmt.
3. Nehmen Sie das Gerät bei Überspannungen (Gewitter) vom Netz. Das Gerät könnte sonst Schaden nehmen.
4. Sollte versehentlich Flüssigkeit in das Gerät gelangen, so ziehen sofort den Netzstecker. Anderenfalls besteht die Gefahr eines lebensgefährlichen elektrischen Schlags.
5. Wartungs- und Reparaturarbeiten dürfen aus Sicherheitsgründen nur von autorisierten Personen durchgeführt werden.
6. Bei Wartungs- und Reparaturarbeiten müssen die Sicherheitsvorschriften der zuständigen Berufsverbände und Behörden unbedingt eingehalten werden.
7. Bei Verletzungen unbedingt den Arzt aufsuchen und die gegebenenfalls die zuständigen Stellen benachrichtigen. Unterlassung kann zum Verlust der Versicherungsleistungen führen.

Safety Instructions

Please read the following instructions seriously.

1. Keep the equipment away from humidity.
2. Before you connect the equipment to the power outlet, please check the voltage of the power source.
3. Disconnect the equipment from the voltage of the power source to prevent possible transient over voltage damage.
4. Don't pour any liquid to the equipment to avoid electrical shock.
5. ONLY qualified service personnel for safety reason should open equipment.
6. Don't repair or adjust energized equipment alone under any circumstances. Someone capable of providing first aid must always be present for your safety
7. Always obtain first aid or medical attention immediately after an injury. Never neglect an injury, no matter how slight it seems.

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1. Barcode Printer

1-1. Printer Accessories

After unpacking, please check the accessories that come with the package, and store appropriately.

- ◆ Barcode printer
- ◆ Power cable
- ◆ USB Cable
- ◆ Label Roll Sample
- ◆ Ribbon
- ◆ Empty Ribbon Roll
- ◆ Quick Start Guide
- ◆ CD (includes label editing software CLabel / Manual)



Falcon 4 Plus



Falcon 6 Plus

1-2. General Specifications

Model	Falcon 4 Plus (CF-4207P)	Falcon 4 Plus (CF-4306P)
Resolution	203 dpi (8 dot/mm)	300 dpi (12 dot/mm)
Print Mode	Thermal Transfer / Direct Thermal	
CPU	32 Bit	
Memory	4MB Flash, 16MB SDRAM	
Print Speed	2 IPS ~ 7 IPS	2 IPS ~ 6 IPS
Print Length	Min 13mm (0.51"), Max 4572mm (180")	Min 13mm (0.51"), Max 2159mm (85")
Print Width	104 mm (4.09")	
Sensor Type	Adjustable transmissive sensor and reflective sensor; left aligned	
Sensor Detection	Type: Label gap and black mark sensing. Detection: Label length auto sensing or program command setting	
Media	Label Roll: Max. 203mm (8.0") with 76.2mm (3") ID core Core Diameter: 38.1mm (1.5") ~ 76.2mm (3") Width (Tear): 25.4mm (1") ~ 118.0mm (4.64") Width (Cutter): Max. 117mm (4.61") Width (Stripper/Rewind): 25.4mm (1") ~ 118.0mm (4.64") Thickness: 0.06~0.25mm	
Ribbon	Length: 450 m (1471 ft) Type: transfer ribbons (wax, hybrid, and resin) in widths of 30 to 110 mm (1.18" to 4.33"). Auto ink inside and ink outside. Core inner diameter 25.4 mm (1"). Max. Ribbon roll diameter 76 mm (2.99").	
Printer Language	EZPL (Firmware downloadable)	
Software	Application: CLabel-IV(EZPL only) DLL & Driver: Microsoft Windows NT 4.0, 2000 and XP	

Resident Fonts	11 resident Windows bit mapped fonts (6,8,10,12,14,18,24,30,16X26,OCR A & B); can be rotated in 8 orientations and expandable 8 times horizontally and vertically. Scalable Font in 4 orientations.
Fonts Download	Windows bit mapped font: can be rotated in 8 orientations and expandable 8 times horizontally and vertically. Asian font: can be rotated in 4 orientations and expandable 8 times horizontally and vertically. True Type Font: can be rotated in 4 orientations.
Image Handling	Support BMP and PCX. Support ICO, WMF, JPG, EMF file through software. Support image resize, rotating, mapping and inverse through software.
Barcodes	Code 39, Code 93, Code 128 (subset A, B, C), UCC/EAN-128 K-Mart, UCC/EAN-128, UPC A / E (add on 2 & 5), I 2 of 5, I 2 of 5 with Shipping Bearer Bars, EAN 8 / 13 (add on 2 & 5), Codabar, Post NET, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF417, Datamatrix code & QR code
Interfaces	Serial port: RS-232 (Baud rate : 4800 ~ 115200 , Xon/Xoff , DSR/DTR) USB port: V2.0 CF card socket
Control Panel	Back-lit LCD Display:128x64dots Graphic LCD. Three single-color LEDs: Power, Ribbon, Media Three control keys: FEED, PAUSE, CANCEL
Power	100/240VAC, 50/60 Hz
Real Time Clock	Standard
Environment	Operation: 41°F to 104°F (5°C to 40°C) Storage: -4°F to 122°F (-20°C to 50°C)
Cert. Approval	BSMI,CE, FCC Class A, CB, cUL, GS, CCC
Humidity	Operation: 30-85%, non-condensing. Free air. Storage: 10-90%, non-condensing. Free air.
Printer Dimension	Length: 512 mm (20.15") Height: 291 mm (11.45") Width: 274 mm (10.78") Weight: 15 Kg
Options	Cutter Internal re-winder Ethernet Adapter Parallel/PS2 Adapter Applicator Interface (1 input, 3 outputs, power 500mA @ 5V)

Specifications are subject to change without notice.

Model	Falcon 6 Plus (CF-6206P)	Falcon 6 Plus (CF-6304P)
Resolution	203 dpi (8 dot/mm)	300 dpi (12 dot/mm)
Print Mode	Thermal Transfer / Direct Thermal	
CPU	32 Bit	
Memory	4MB Flash, 16MB SDRAM	
Print Speed	2 IPS ~ 6 IPS	2 IPS ~ 4 IPS
Print Length	Min 13mm (0.51"), Max 3000mm(118")	Min 13mm (0.51"), Max 1371mm (54")
Print Width	168 mm (6.61")	
Sensor Type	Adjustable transmissive sensor and reflective sensor; left aligned	
Sensor Detection	Type: Label gap and black mark sensing. Detection: Label length auto sensing or program command setting	
Media	Label Roll: Max. 203mm (8.0") with 76.2mm (3") ID core Core Diameter: 38.1mm (1.5") ~ 76.2mm (3") Width (Tear): 50.8 mm (2") ~ 178.0mm (7") Width (Cutter): Max. 165mm (6.5") Width (Heavy duty cutter): Max. 172mm (6.8") Width (Stripper/Rewind): 50.8 mm (2") ~ 178.0mm (7") Thickness: 0.06~0.25mm	

Ribbon	Length: 450 m (1471 ft) Type: transfer ribbons (wax, hybrid, and resin) in widths of 60 to 174 mm (2.36" to 6.85"). Auto ink inside and ink outside. Core inner diameter 25.4 mm (1"). Max. ribbon roll diameter 76mm (2.99").
Printer Language	EZPL (Firmware downloadable)
Software	Application: CLabel-IV(EZPL only) DLL & Driver: Microsoft Windows, NT 4.0, 2000 and XP.
Resident Fonts	11 resident Windows bit mapped fonts (6,8,10,12,14,18,24,30,16X26,OCR A & B); can be rotated in 8 orientations and expandable 8 times horizontally and vertically. Scalable Font in 4 orientations.
Fonts Download	Windows bit mapped font: can be rotated in 8 orientations and expandable 8 times horizontally and vertically. Asian font: can be rotated in 4 orientations and expandable 8 times horizontally and vertically. True Type Font: can be rotated in 4 orientations.
Image Handling	Support BMP and PCX. Support ICO, WMF, JPG, EMF file through software. Support image resize, rotating, mapping and inverse through software.
Barcode	Code 39, Code 93, Code 128 (subset A, B, C), UCC/EAN-128 K-Mart, UCC/EAN-128, UPC A / E (add on 2 & 5), I 2 of 5, I 2 of 5 with Shipping Bearer Bars, EAN 8 / 13 (add on 2 & 5), Codabar, Post NET, EAN 128, DUN 14, MaxiCode, HIBC, Plessey, Random Weight, Telepen, FIM, China Postal Code, RPS 128, PDF417, Datamatrix code & QR code
Interface	Serial port: RS-232 (Baud rate : 4800 ~ 115200 , Xon/Xoff , DSR/DTR) USB port: V2.0 CF card socket
Control Panel	Back-lit LCD Display:128x64dots Graphic LCD. Three single-color LED lamps: Power, Ribbon, Media Three control keys: FEED, PAUSE, CANCEL
Power	100/240VAC, 50/60 Hz
Real Time Clock	Standard
Environment	Operation: 41°F to 104°F (5°C to 40°C) Storage: -4°F to 122°F (-20°C to 50°C)
Humidity	Operation: 30-85%, non-condensing. Free air. Storage: 10-90%, non-condensing. Free air.
Cert. Approval	BSMI,CE, FCC Class A,CB,cUL,GS,CCC
Printer Dimension	Length: 516mm (20.31") Height: 285 mm (11.22") Width: 345 mm (13.58") Weight: 16.7 Kg
Options	Cutter Stripper sensor (with internal re-winder) Ethernet Adapter Parallel & PS2 Adapter Applicator Interface (1 input, 3 outputs, power 500mA @ 5V)

Specifications are subject to change without notice.

1-3. Communication Interface

Parallel Interface

Handshake : DSTB connects to the printer, BUSY connects to the host

Interface cable : Parallel cable compatible to IBM PC

Pin out : See below

PIN NO.	FUNCTION	TRANSMITTER
1	/Strobe	host / printer
2-9	Data 0-7	host
10	/Acknowledge	printer
11	Busy	printer
12	/Paper empty	printer
13	/Select	printer
14	/Auto-Linefeed	host / printer
15	N/C	
16	Signal Gnd	
17	Chasis Gnd	
18	+5V,max 500mA	
19-30	Signal Gnd	host
31	/Initialize	host / printer
32	/Error	printer
33	Signal Ground	
34-35	N/C	
36	/Select-in	host / printer

Serial Interface

Serial Default : 9600 baud rate、no parity、8 data bits、1 stop bit、XON/XOFF protocol and
Setting : RTS/CTS。

RS232 HOUSING (9-pin to 9-pin)

DB9 SOCKET		DB9 PLUG
---	1	+5V,max 500mA
RXD	2	TXD
TXD	3	RXD
DTR	4	N/C
GND	5	GND
DSR	6	DTR
RTS	7	CTS
CTS	8	RTS
RI	9	N/C
PC		PRINTER

【Note】 The total current output from parallel port and serial port altogether can not exceed 500mA.

USB Interface

Connector Type : Type B

PIN NO.	1	2	3	4
FUNCTION	VBUS	D-	D+	GND

PS2 Interface

PIN NO.	1	2	3	4	5	6
FUNCTION	DATA	N/C	GND	VCC	CLOCK	N/C

PS2 interface from PC to printer

Printer		Keyboard
DATA	1 _____ 1	DATA
N/C	2 _____ 2	N/C
GND	3 _____ 3	GND
VCC	4 _____ 4	VCC
CLOCK	5 _____ 5	CLOCK
N/C	6 _____ 6	N/C

Internal Interface

UART1 wafer			Ethernet module
N.C	1 _____ 1		N.C
TXD	2 _____ 2		RXD
RXD	3 _____ 3		TXD
CTS	4 _____ 4		RTS
GND	5 _____ 5		GND
RTS	6 _____ 6		CTS
E_MD	7 _____ 7		E_MD
RTS	8 _____ 8		CTS
E_RST	9 _____ 9		E_RST
+5V	10 _____ 10		+5V
GND	11 _____ 11		GND
+5V	12 _____ 12		+5V

UART2 wafer			Expansion module
N.C	1 _____ 1		N.C
TXD	2 _____ 2		RXD
RXD	3 _____ 3		TXD
CTS	4 _____ 4		RTS
GND	5 _____ 5		GND
RTS	6 _____ 6		CTS
N.C	7 _____ 7		N.C
RTS	8 _____ 8		CTS
N.C	9 _____ 9		N.C
+5V	10 _____ 10		+5V
GND	11 _____ 11		GND
+5V	12 _____ 12		+5V

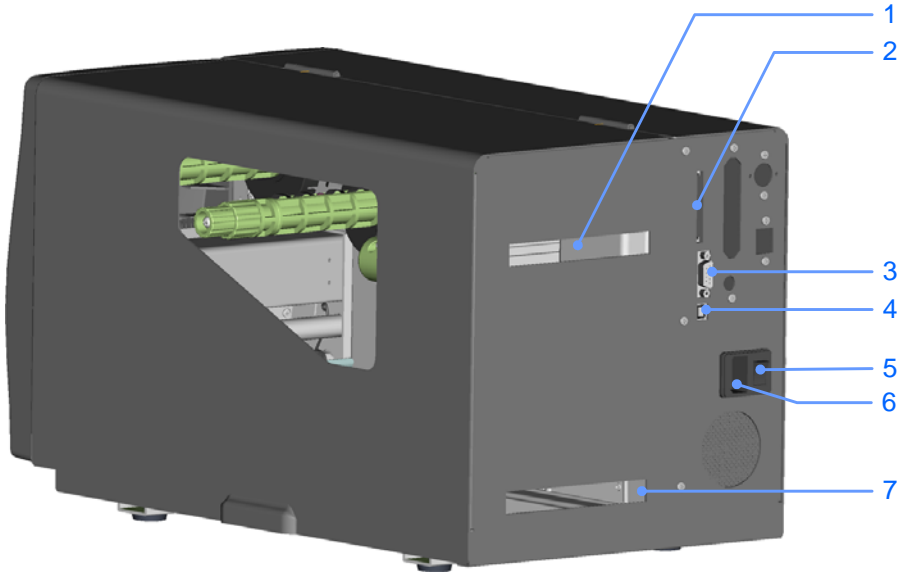
Applicator wafer			Applicator module
+5V	1	1	+5V
+24V	2	2	+24V
Printing (out)	3	3	Printing
Print error (out)	4	4	Print error
Printed (out)	5	5	Printed
Print (in)	6	6	Print
GND	7	7	GND
N.C	8	8	
GND	9	9	
N.C	10	10	

1-4. Printer Parts

Appearance



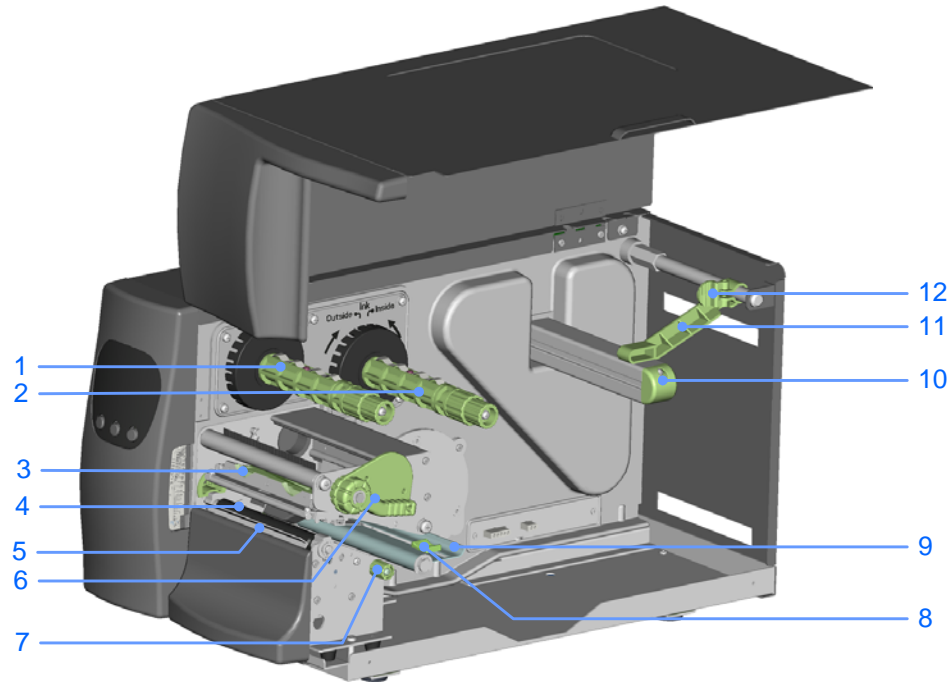
1.	Control panel
2.	Bottom Front Cover
3.	Observing Window
4.	Top Cover



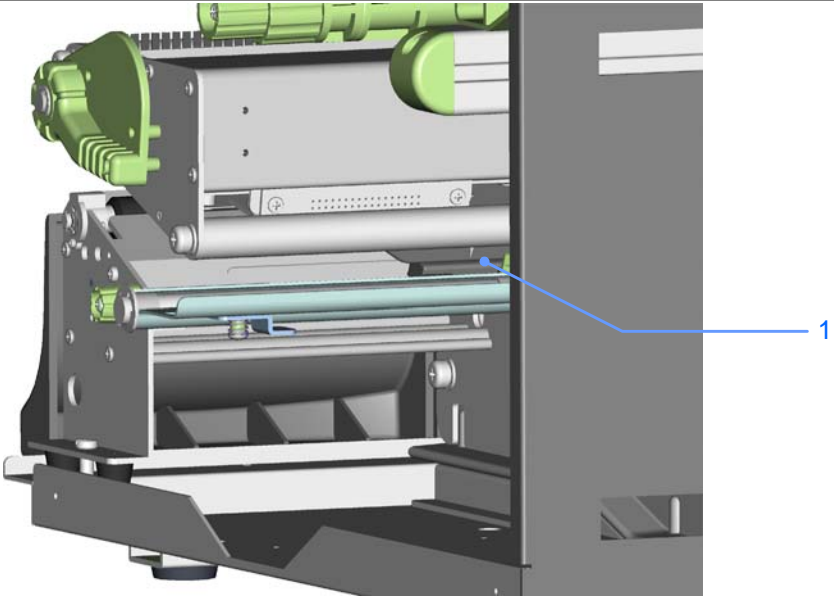
1.	Fan-Fold Label Insert
2.	CF Card Slot
3.	Serial Port *
4.	USB Port
5.	Power Switch
6.	Power Socket
7.	Fan-Fold Label Insert

* The communication ports may vary depending on product types.

Internal

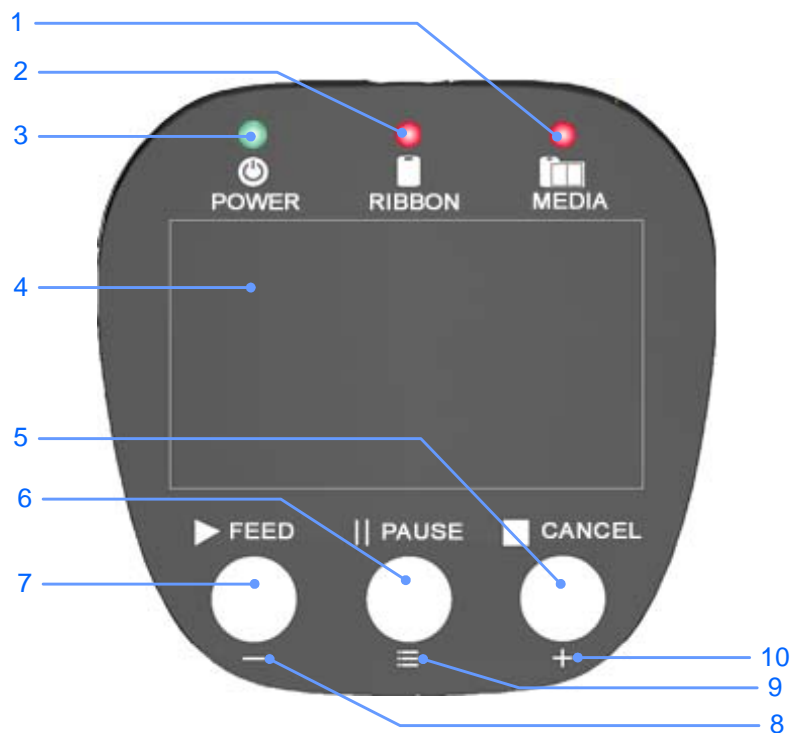


1.	Ribbon Rewind Shaft
2.	Ribbon Supply Shaft
3.	Printer Mechanism
4.	Platen
5.	Tear off Bar
6.	Print Head Lever
7.	Sensor Knob
8.	Label Guide
9.	Label Tension Plate
10.	Label Roll Bar
11.	Label Supply Guide
12.	Label Alignment Guide



1.	Movable sensor
----	----------------

Control Panel



1.	MEDIA LED
2.	RIBBON LED
3.	POWER LED
4.	LCD
5.	CANCEL Key
6.	PAUSE Key
7.	FEED Key
8.	MINUS (-) Key (In setting mode)
9.	MENU Key (In setting mode)
10.	PLUS (+) Key (In setting mode)

2. Printer Installation

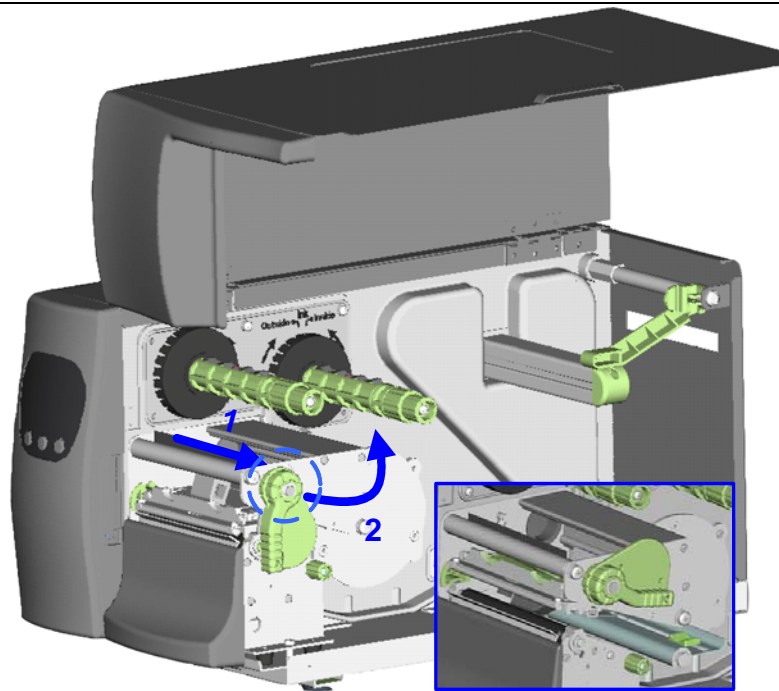
This printer model has the following print modes:

Thermal Transfer (TT)	When printing, ribbon must be installed to transfer the print contents onto the media.
Direct Thermal (DT)	When printing, no ribbon is necessary; it only requires direct thermal media.

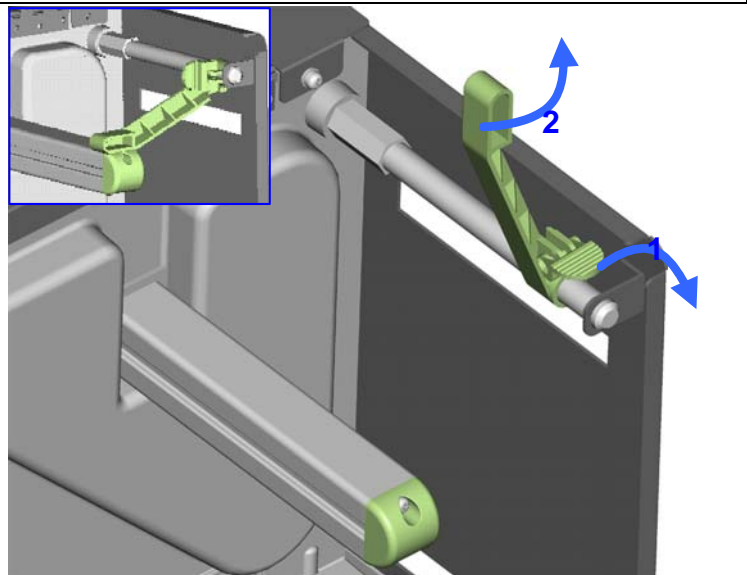
Please check the specific print mode, and then go into the Setting Mode after power on the printer °

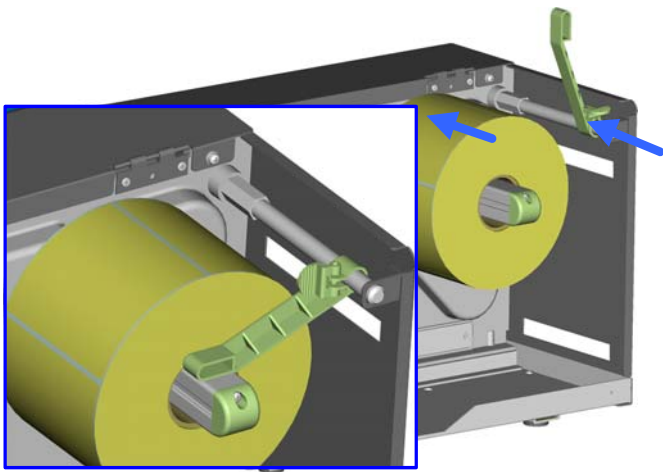
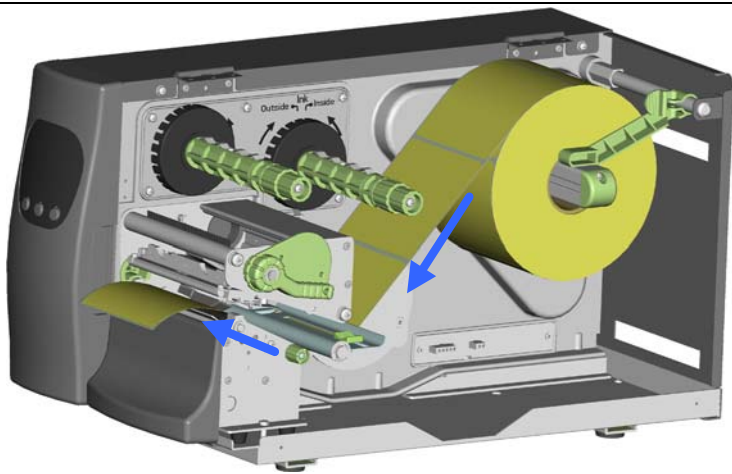
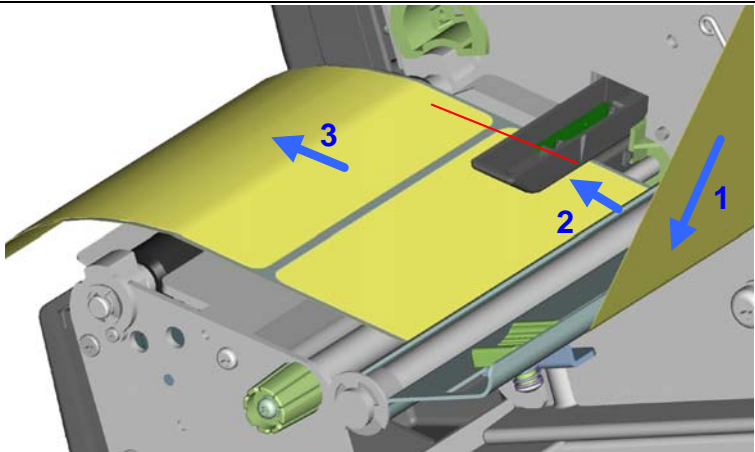
2-1. Label Installation

1. Place the printer on a horizontal surface, and open the top cover.
2. Follow the sequence and direction as the figure shows, pull the Print Head Lever out and flip it upward to the right.



3. Pull the Label Alignment Guide to the direction as the blue arrow 1 indicates.
4. Flip the Label Supply Guide upward as the blue arrow 2 indicates.



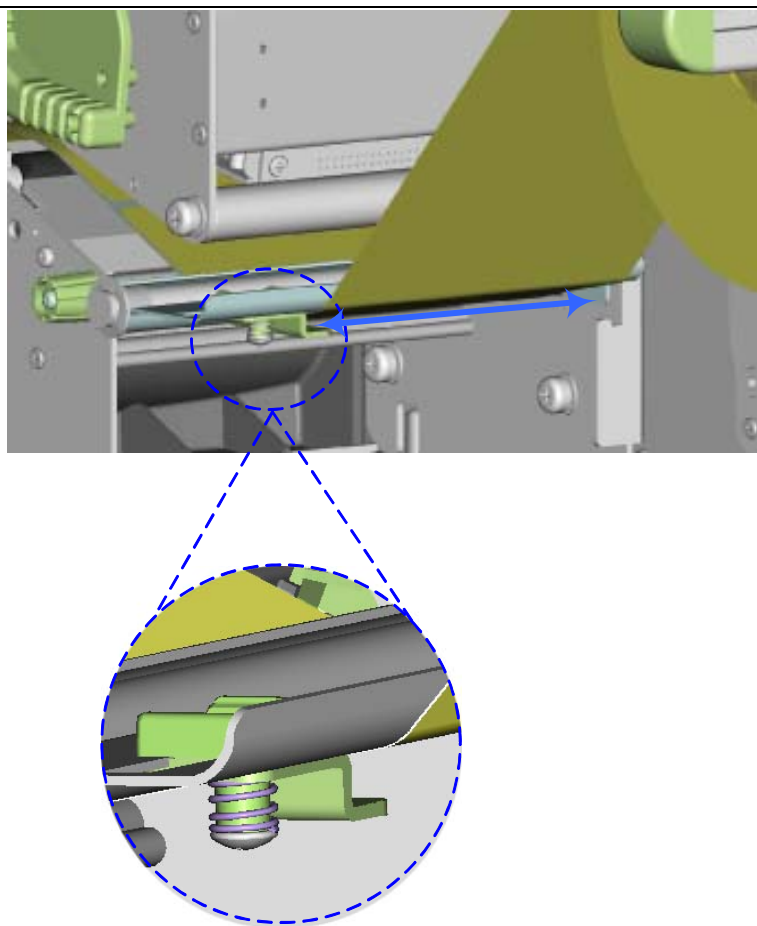
<p>5. Place the label roll onto the Label Roll Bar and align the label to printer's inner wall. (To avoid the damage of media, please do not squeeze label roll too hard.)</p> <p>6. Pull the Label Alignment Guide back and make it fit the edge of label roll.</p> <p>【Note】 Please always hold the bottom of the Label Alignment Guide when moving.</p>	
<p>7. Follow the direction as the figure shows to feed the label.</p>	
<p>8. Put the label under the Moveable Sensor and stretch it to the Tear-Off Bar.</p> <p>【Note】 Moveable Sensor should be aligned to the position of label gap, black mark and punch hole. You can adjust the position with Moveable Sensor Lever.</p>	

9. Align the label edge inward, and fix the label outside in Label Guide. Adjust the Label Guide with the label.

【Note】

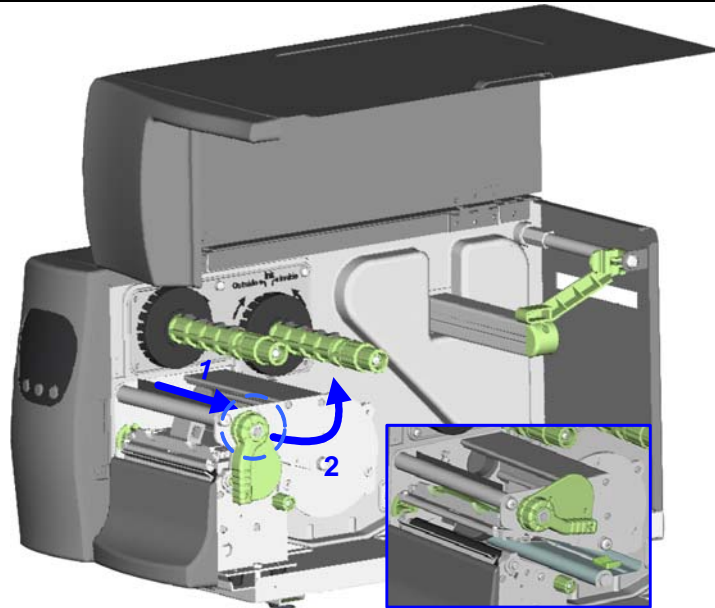
The Label should be put within Label Feed Guide as the figure shows.

10. Flip the Print Head Lever back to its original position.
11. Close the top cover to complete the label installation.

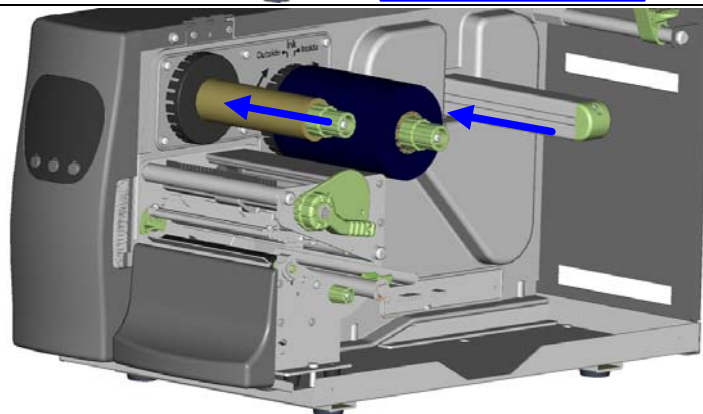


2-2. Ribbon Installation

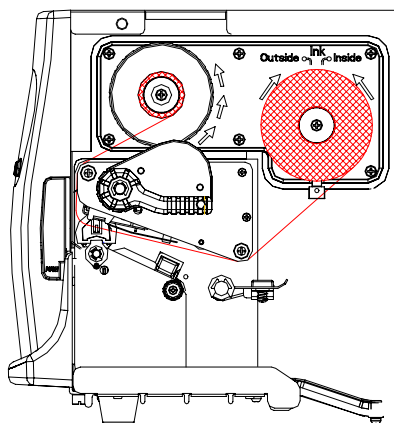
1. Place the printer on a horizontal surface, and open the top cover.
2. Follow the sequence and direction as the figure shows, pull the Print Head Lever out and flip it upward to the right.



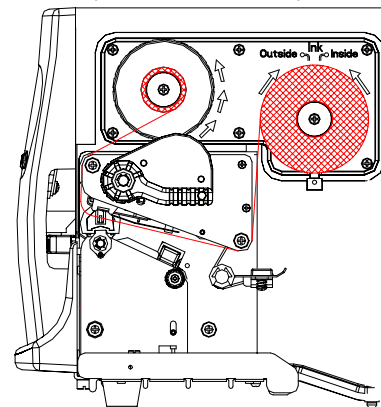
3. Place a new ribbon roll onto the Ribbon Supply Shaft and place the empty ribbon roll onto the Ribbon Rewind Shaft.
4. The right-bottom figure shows two different installing directions according to different types of ribbons.



Ribbon outside installation
(ink outside the roll)

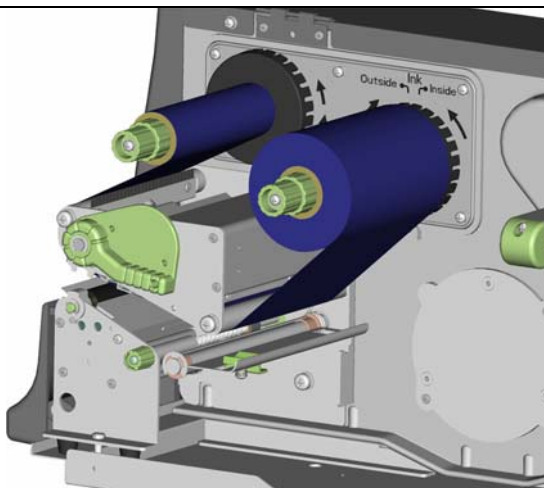


Ribbon inside installation
(ink inside the roll)



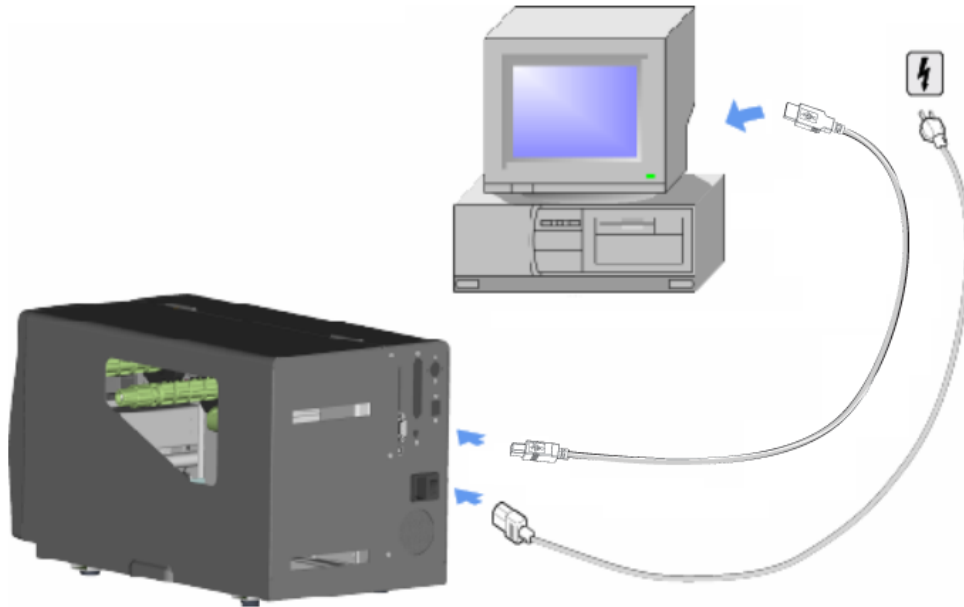
5. Feed the ribbon from the Ribbon Supply Shaft under the print head. Wrap the ribbon around the Ribbon Rewind Shaft and stick it onto the empty ribbon roll.

【Note】
*DO NOT feed
the ribbon under the
Moveable Sensor.*



2-3. PC Connection

1. Please make sure the printer is powered off.
2. Take the power cable, plug the cable switch to the power socket, and then connect the other end of the cable to the printer power socket.
3. Connect the cable to the USB/parallel port on both side of printer and PC.
4. Power on the printer, the LCD display would show the printer model and F/W version.

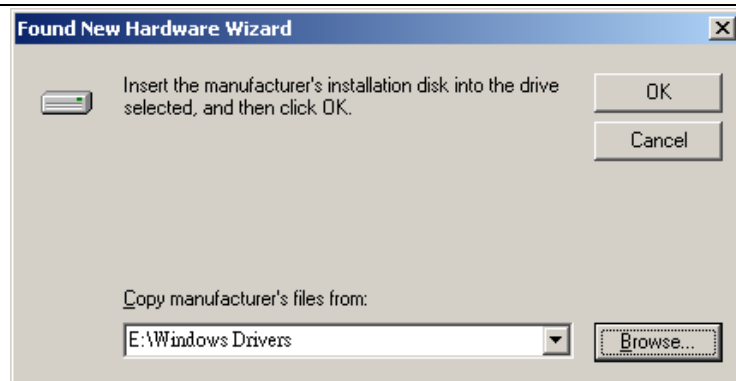
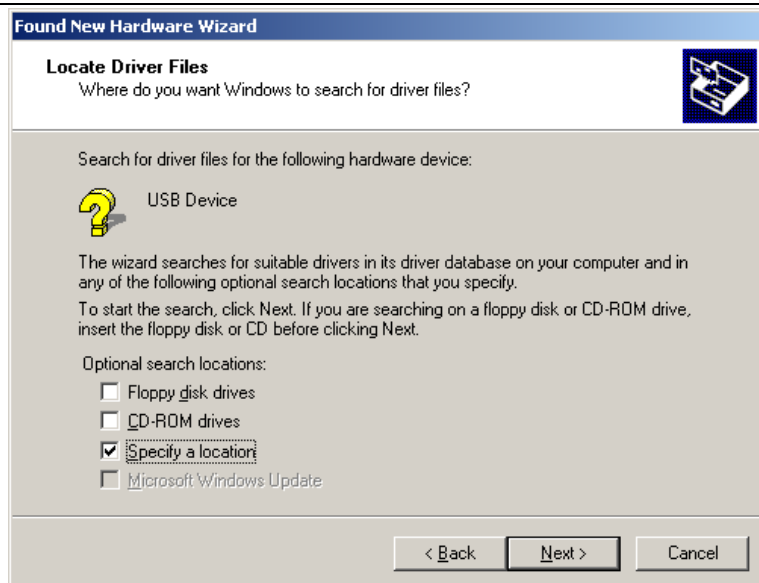


2-4. Driver Installation

1. Once the USB cable is connected from PC to the printer, PC will automatically detect the new device and begin the installation process.

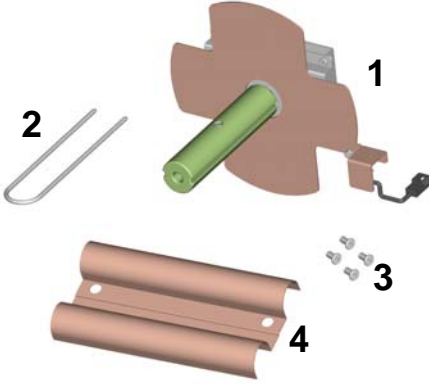
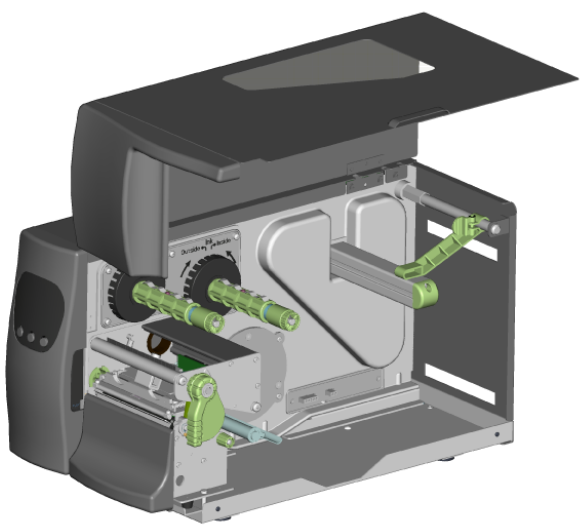
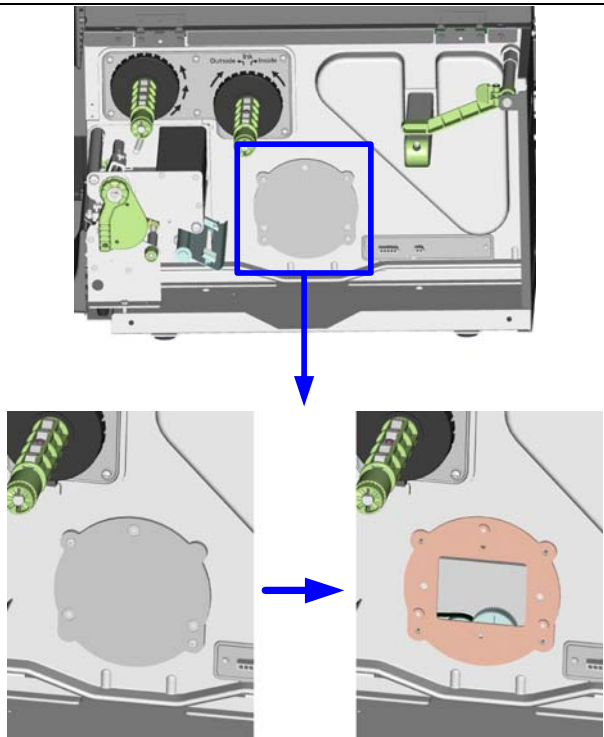


2. Insert the product CD, select 'Specify a location' and describe the path of the printer driver.
3. Follow the instruction on the Window and complete the driver installation.

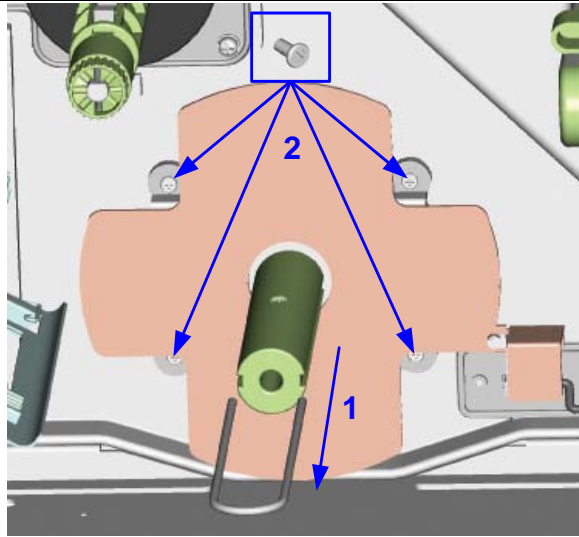


3. Accessory

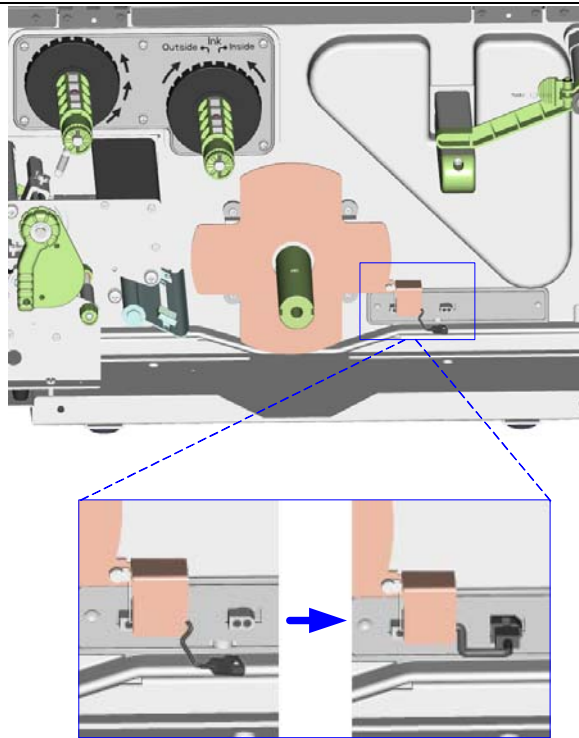
3-1. Internal Rewinder for Falcon 4 Plus

<table border="1"> <tr> <td>1</td><td>Rewinder</td></tr> <tr> <td>2</td><td>U Shape Clip</td></tr> <tr> <td>3</td><td>Screw x 4pcs</td></tr> <tr> <td>4</td><td>Rewind bracket</td></tr> </table> <p>【Note】 Peel-off liner Max width: 118mm</p> <p>【Suggestion】 Liner thickness: 0.06mm~0.25mm</p>	1	Rewinder	2	U Shape Clip	3	Screw x 4pcs	4	Rewind bracket	
1	Rewinder								
2	U Shape Clip								
3	Screw x 4pcs								
4	Rewind bracket								
<p>1. Place the printer onto a smooth surface, open the top cover and face the printer sideways.</p> <p>【Note】 Before the installation, please power off the printer first.</p>									
<p>2. Turn the printer sideways and remove the Rewinder module cover plate.</p>									

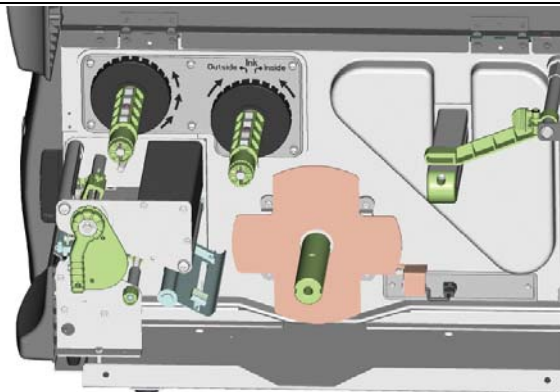
3. Take off the U Shape Clip from the Liner Rewind Shaft.
4. Secure the Rewinder unit onto the printer.



5. After the Rewinder is installed, plug the Rewinder Cable Connector onto the Rewinder Connector.



6. Rewinder Installation completes.

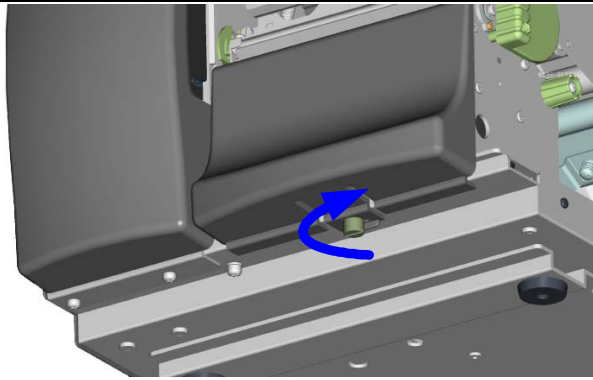


3-2. Rewind Bracket Installation for Falcon 4 Plus

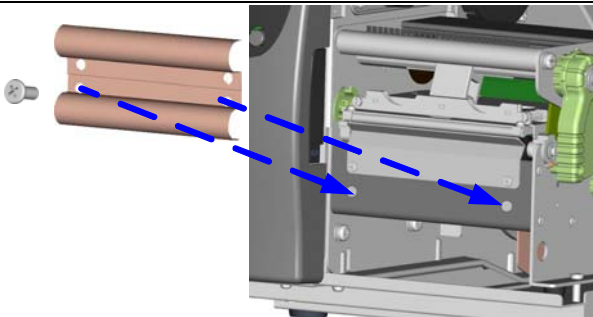
1. Face the printer front, and unscrew the bottom cover screw.
2. Remove the bottom front Cover.

【Note】

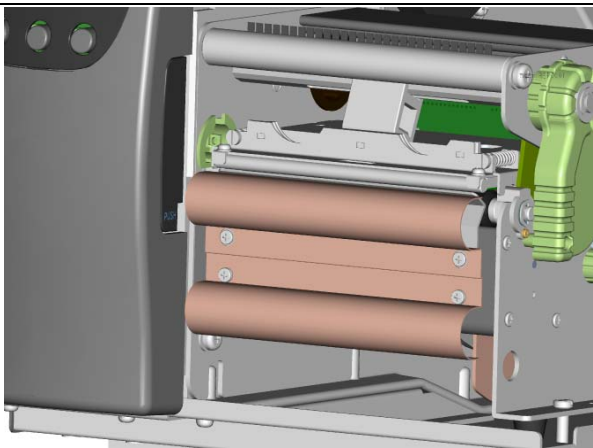
Before the installation, please power off the printer first.



3. Mount the label rewind bracket onto the printer mechanism and secure the screws into place.



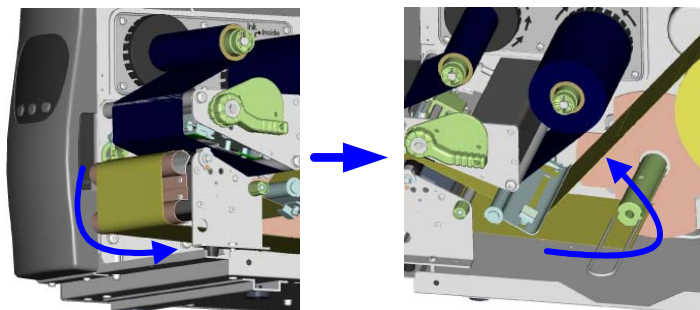
4. Label rewind bracket installation completes.



5. Install the media into the printer.
6. Feed the label through the Printer Mechanism and around the Label Feed Guide.
7. Wrap the label around the Liner Rewinder Shaft, and use the U Shape Clip to secure the liner.

【Note】

Make sure the label rewind is in correct direction.



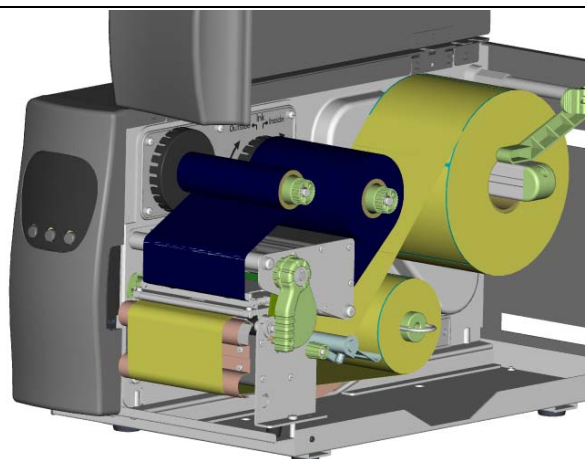
8. Close the top cover to complete Label rewind bracket and Rewinder installation.

【Note1】

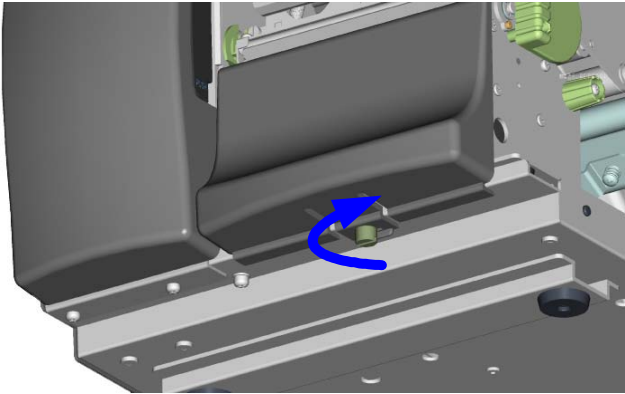
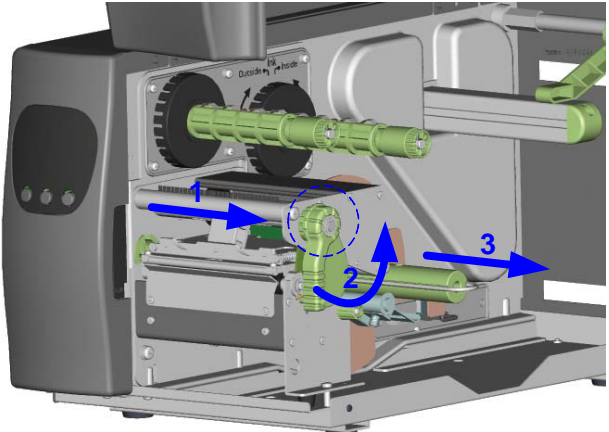
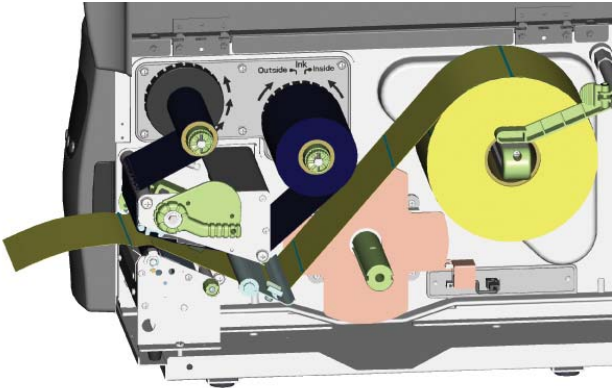
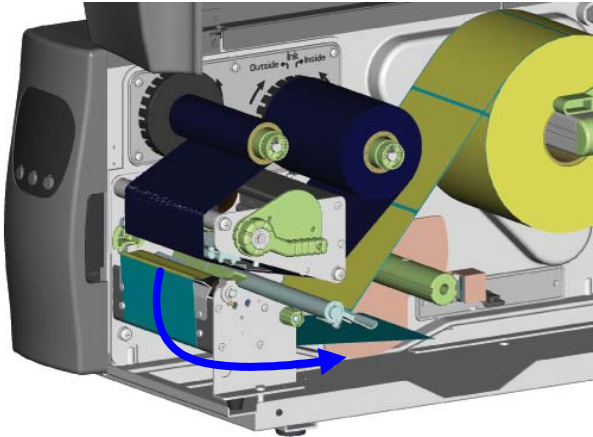
Before starting to rewind labels, please make sure the printer's Label Rewind Bracket is installed properly as instructed.

【Note2】

When use stripper function, Please dismount the rewind bracket first.

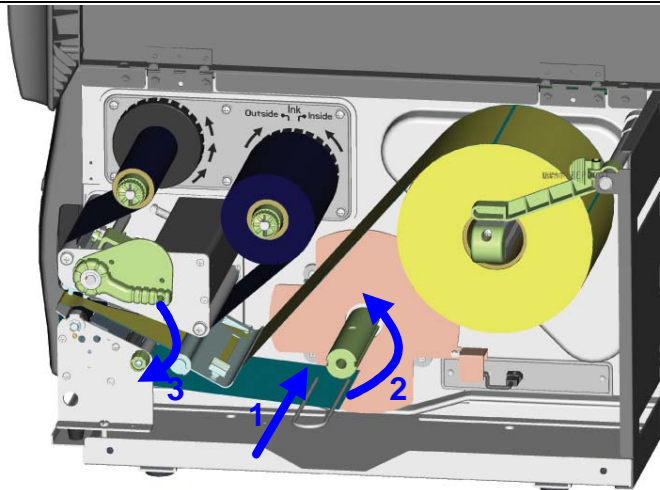


3-3. Stripper Installation for Falcon 4 Plus

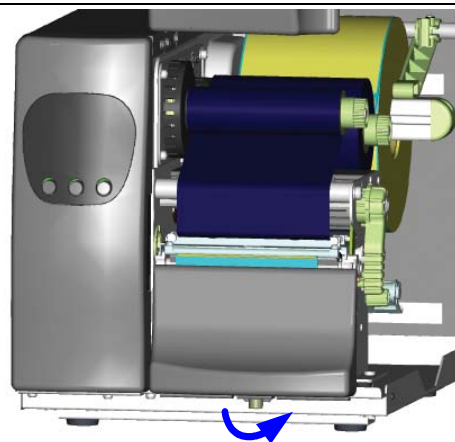
<ol style="list-style-type: none"> 1. Face the printer front, and unscrew clockwise the bottom front cover screw. 2. Remove the bottom front cover. <p>【Note】 Before the installation, please power off the printer first.</p>	
<ol style="list-style-type: none"> 3. After Rewinder installation complete, face the printer sideways. 4. Pull the print head lever out and flip it upward to the right. 5. Remove the U Shape Clip. 	
<ol style="list-style-type: none"> 6. Install the media into the printer. <p>【Note】 Label liner thickness is recommended to be 0.06mm \pm 10% with basic weight 65g/m² \pm 6%.</p> <p>【Suggestion】 When using the stripper module, set the stop position to 12 in CLabel and the E value is 12.</p>	
<ol style="list-style-type: none"> 7. Peel off a few labels from the liner (about 400mm of liner), and then feed the liner through the Printer Mechanism and around the Label Feed Guide. 	

8. Wrap the liner around the Liner Rewinder Shaft, and use the U Shape Clip to secure the liner.
9. Flip the print head lever downward and then push it back to the original position.

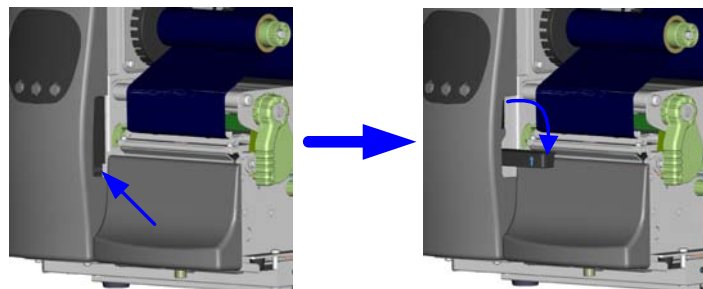
【Note】
Make sure the liner rewind is in correct direction.



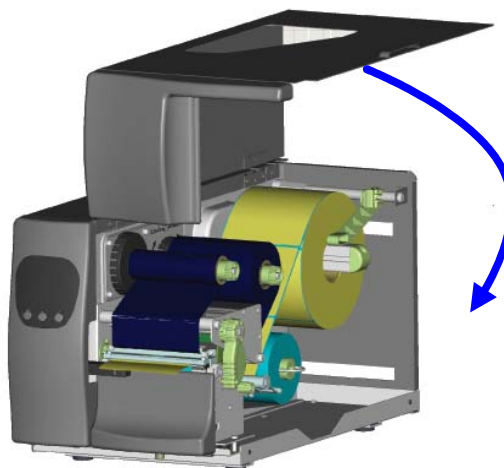
10. Screw the bottom front cover back onto the printer.



11. Press lower part of the stripper sensor to flip it open.
12. Flip the stripper sensor to the sensor detects position.



13. Close the top cover to complete stripper installation.



3-4. Cutter Installation

1	Cutter Cover (Falcon 4 Plus)
2	Cutter Cover (Falcon 6 Plus)
3	Cutter
4	Locks
5	Screws x 2pcs

【Note1】
Do not cut self-adhesive labels! The traces of adhesive will pollute the rotary knife and impair safe operation!

【Note2】
The service life of Falcon 4 Plus Cutter is 500,000 cuts with paper Weights 160g/m², and 250,000 cuts with paper weights 200g/m².

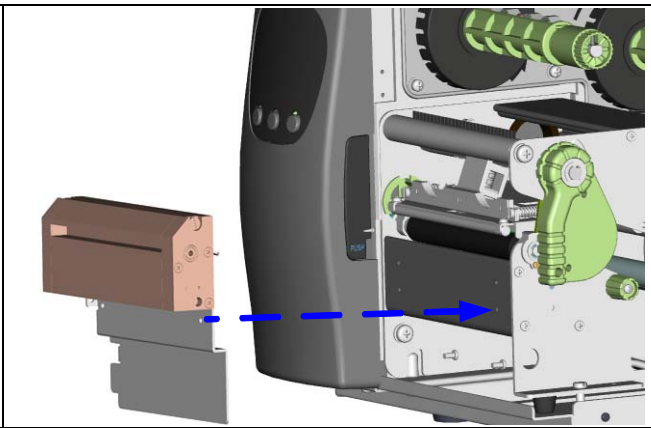
【Note3】
The service life of Falcon 6 Plus Cutter is 500,000 cuts.

1. Face the printer, and unscrew the screw to remove the bottom front cover.

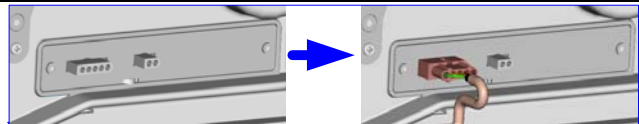
【Note】
Please power off the printer before installing the cutter module.

2. Open the top cover and unscrew the two screws in the front to remove the tear off bar.

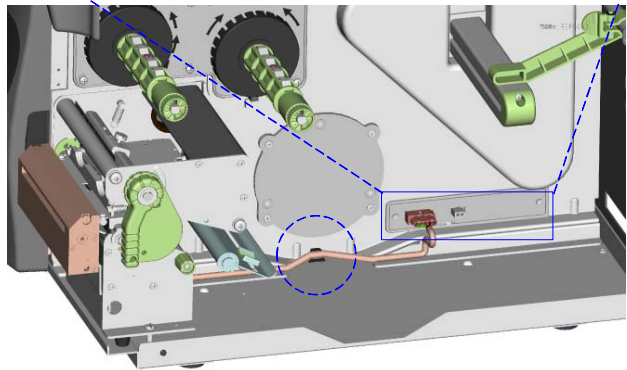
3. Hold the cutter and secure the cutter kit onto the printer.



4. Plug the cutter cable connector onto the cutter connector.



5. Tie the cables with the secure locks, and stick the locks onto the bottom plate.



6. Hang up the cutter cover to the cutter and screw the bottom cover screw.
7. Install the media into the printer. Close the Top Cover to complete the cutter installation.

【Note1】

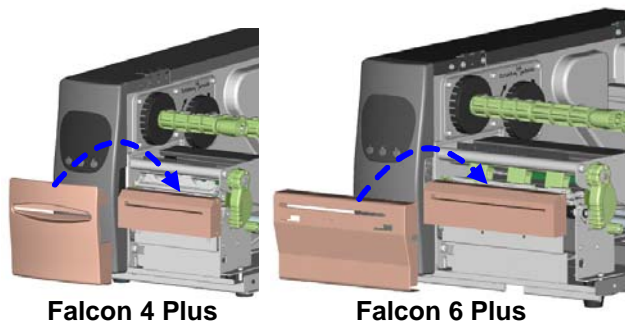
Make sure the printer is set to activate cutter function on.

【Note2】

The label / paper used for cutting is suggested to be at least 30mm in height.

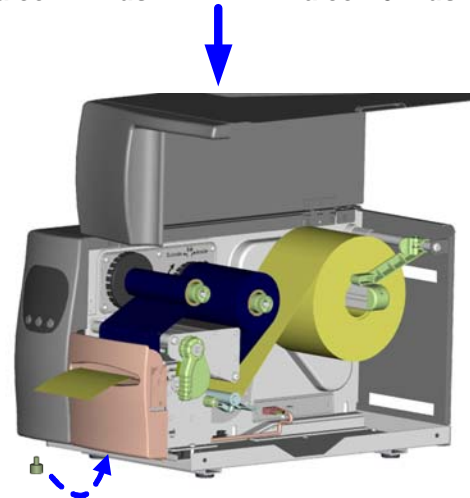
【Suggestion】

When installing the cutter module, set the stop position to 26 (for Falcon 4 Plus) or 30 (for Falcon 6 Plus) in CLabel and the E value is 26 (for Falcon 4 Plus) or 30 (for Falcon 6 Plus).

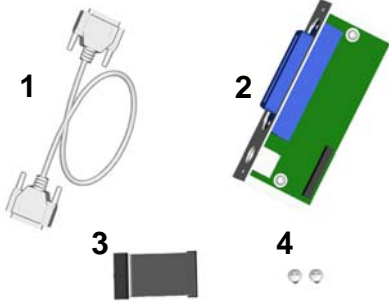
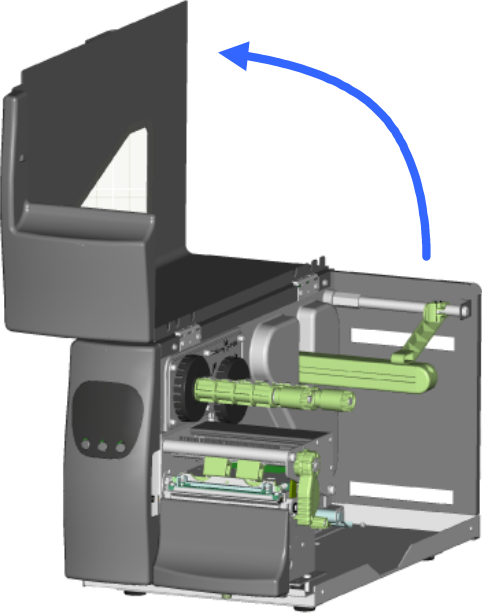
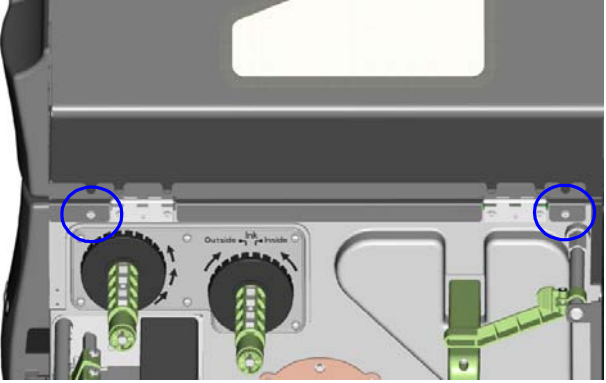
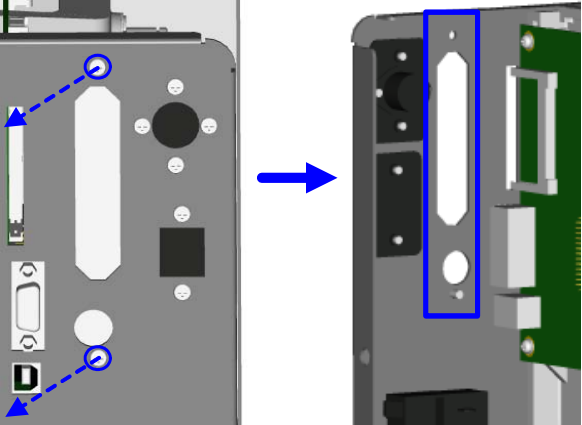


Falcon 4 Plus

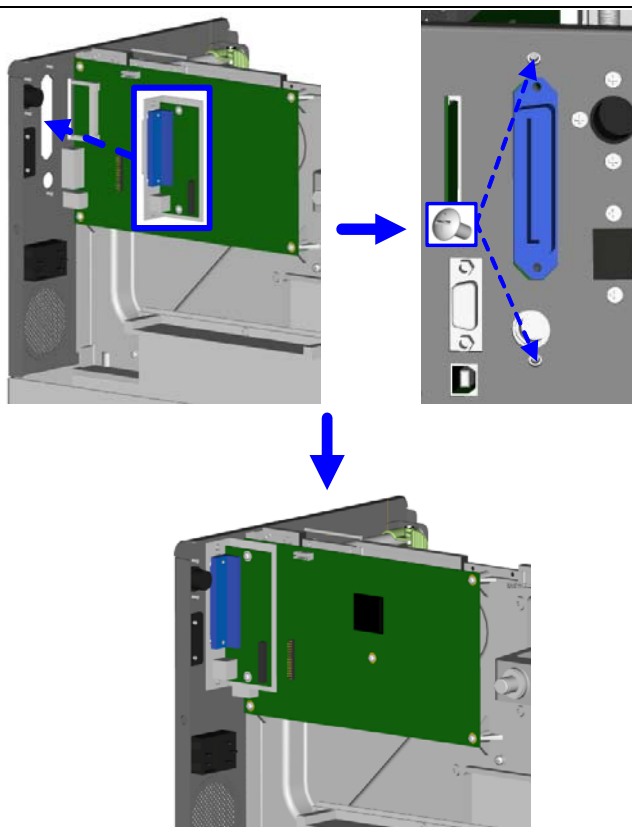
Falcon 6 Plus



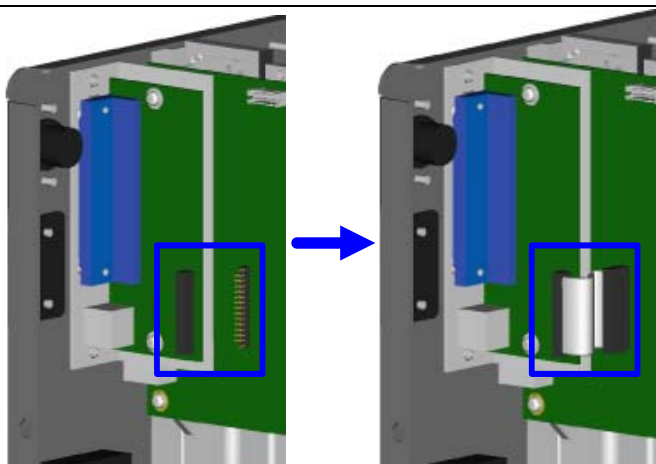
3-5. Parallel/PS2 Adapter Installation

<table border="1"> <tr> <td>1</td><td>Parallel Cable</td></tr> <tr> <td>2</td><td>Parallel/PS2 Adapter</td></tr> <tr> <td>3</td><td>Connector Cable</td></tr> <tr> <td>4</td><td>Screw x 2pcs</td></tr> </table>	1	Parallel Cable	2	Parallel/PS2 Adapter	3	Connector Cable	4	Screw x 2pcs	
1	Parallel Cable								
2	Parallel/PS2 Adapter								
3	Connector Cable								
4	Screw x 2pcs								
<p>1. Make sure the power is off and the power cable is unplugged. Place the printer onto a smooth surface and open the top cover.</p>									
<p>2. Unscrew two screws as indicated in figure and remove the left top cover from the printer.</p>									
<p>3. Unscrew the screws of parallel port cover and remove the cover.</p>									

4. Align the Parallel/PS2 module to the parallel port and secure the module onto the back plate.



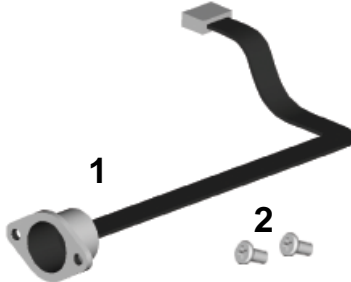
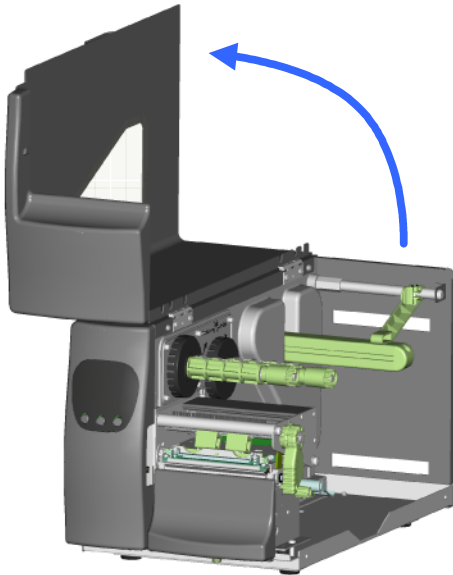
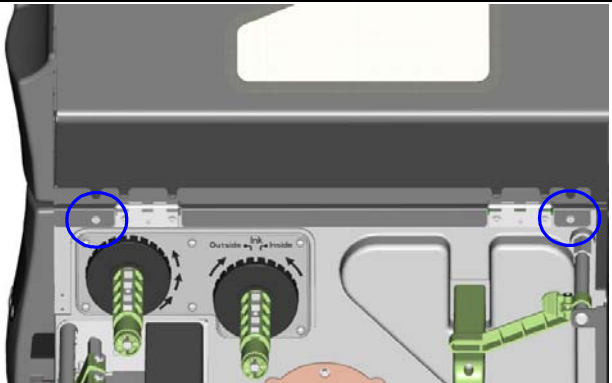
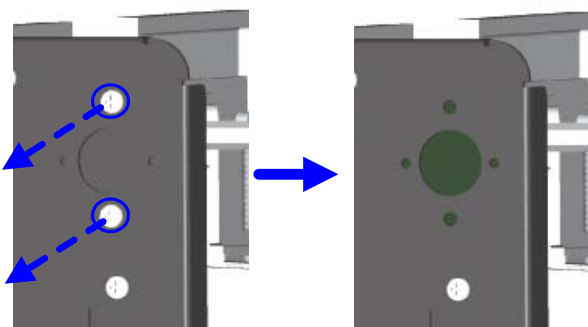
5. Connect one end of the 30 pin connector cable to the main board and the other end to the Parallel/PS2 module.

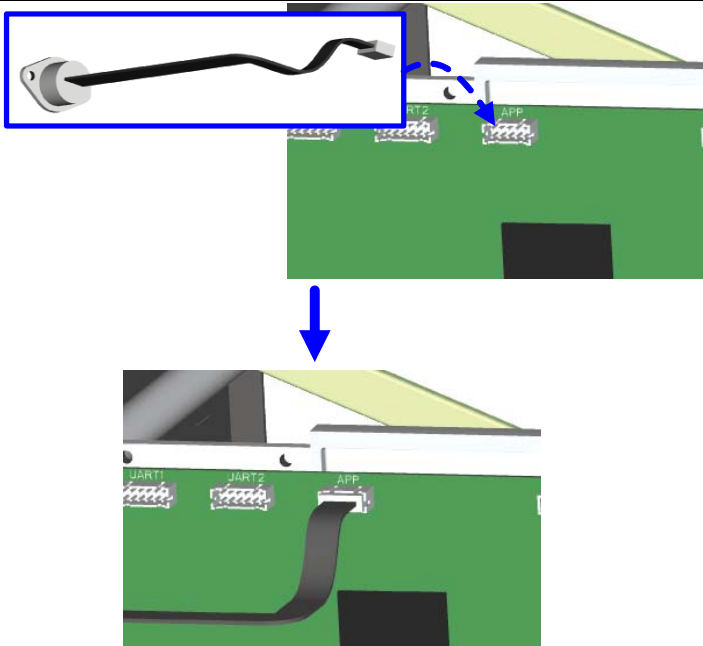
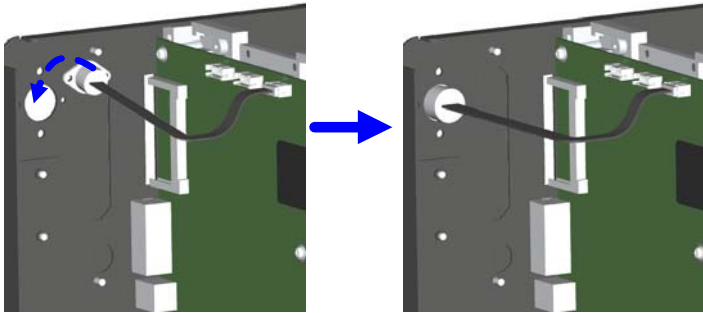
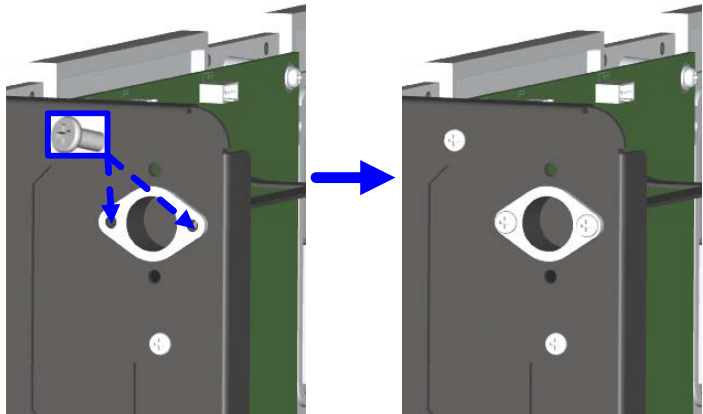
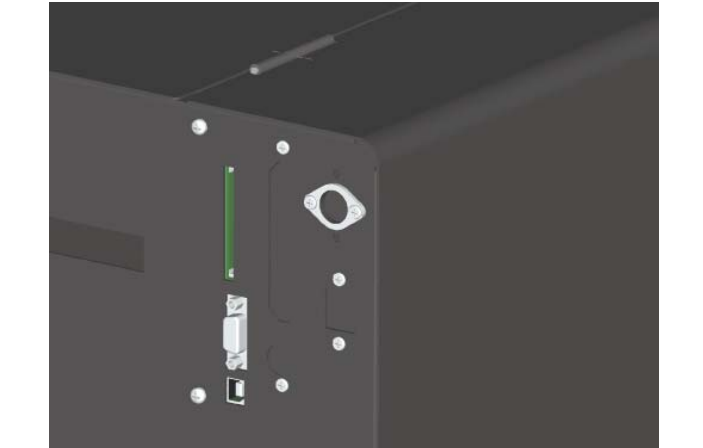


6. The Parallel/PS2 module installation is complete.







3-6. Applicator Interface Installation

<p>1 Applicator Interface</p> <p>2 Screw x 2pcs</p>		
<p>【Note】 <i>This applicator interface is only applicable to THARO company's applicator product. For more detail about applicator products, please visit http://www.tharo.com/.</i></p>		
<p>2. Unscrew two screws as indicated in figure and remove the left top cover from the printer.</p>		

<p>4. Plug the 10pin connector into the socket on mainboard that marked with "APP".</p>	
<p>5. Align the Applicator Interface to the hole and hold the position.</p>	
<p>6. Tighten the screws to fix the Applicator Interface.</p>	
<p>7. Assemble the left top cover and close it to complete the installation.</p>	

4. Control Panel

4-1. Control Panel Introduction

	Control keys	
		FEED
		PAUSE
		CANCEL
	LED indicators	
	Power	Power on
	Ready(Power)	After turning on the power, the Ribbon and Media lights will flash alternately until the completion of initialization.
	Ribbon	Ribbon status indication
	Media	Media status indication

4-2. Control Keys Introduction

FEED Key

After pressing the FEED key, printer will send the media (according to media type) to the specified stop position. When printing with continuous media, pressing the FEED key will feed media out to a certain length. When printing labels, pressing the FEED key will feed one label at a time; if the label is not sent out in a correct position, please proceed with the Auto Sensing (see page41).

Pause Key















When pressing the Pause key in standby mode, the printer will go into the Pause Mode, and LCD Display will indicate "Falcon xxxx Vx.xxx Pause." At this status, printer won't be able to receive any command. Then pressing the Pause key once again, the printer will get out of the Pause mode and go back to standby mode.

Pressing the Pause key while printing, printer will pause the print job. When the Pause key is pressed one more time, the printer will continue with the rest of the print job. For example, if the print job contains 10 labels, press the Pause key to stop printing after 2 labels are printed. When pressing the Pause key again, printer will finish the printing of the remaining 8 labels.

Cancel Key

Pressing the Cancel key while printing, the LCD Display will show "Print job is cancelled", it means the printer cancels the current print job. For example, if the print job contains 10 labels, press the Cancel key after 2 labels are printed, the remaining 8 labels won't be printed, and the printer goes back to standby mode.

With different combinations of FEED PAUSE and CANCEL keys, the printer can perform various functions as follows:

Item	Key	Beep	LCD Message	Description
Self test	 + Power on	3 beeps	Self test	Press and hold  key and turn on the printer until the buzzer beeps 3 times.
Dump mode	 + Power on	3 beeps → 1 beep	Now in Dump Mode	After entering Self test Mode, keep holding  key until the buzzer beep once.
Auto sensing	 + Power on	3 beeps	Auto sensing Mode	Press and hold  key and turn on the printer until the buzzer beeps 3 times.
Go to default	 +  + Power on	2 beeps twice	Go to default	Press and hold  &  keys and turn on the printer until the buzzer beeps 2 times. The printer setting will go to default.
Download mode	 + Power on	1 beep	DL MODE Vx.xx	Press and hold  key and turn on the printer until the buzzer beeps once. This mode is only for firmware downloading.
Setting mode		3 beeps	Setting mode	When Power on, press and hold  key about 3 to 4 seconds until the buzzer beep 3 times.

4-3. Setting mode

In the Setting Mode, changes can be made according to requirement on the printing mode, options, media type, and parallel interface (printer can only go into setting when connected to PC by parallel cable, USB cable, or serial cable).

1. Power on the printer and make sure it is on "Ready to print" status.
2. Press and hold Pause key about 3 to 4 seconds until the buzzer beep 3 times (for product types that with LCD monitor, the LCD will display "Setting Mode").
3. In the Setting Mode, the keys have the following functions:

— : MINUS / Enter

≡ : MENU / NEXT

+ : PLUS / Exit

4. Before exiting the Setting Mode, printer will prompt user whether to save the settings. After user's response on whether do or do not save the settings, printer will return to standby mode.

LED signal

Press and hold **≡** key about 3 to 4 seconds until the buzzer beep 3 times




Blinking

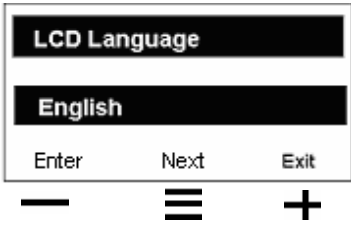
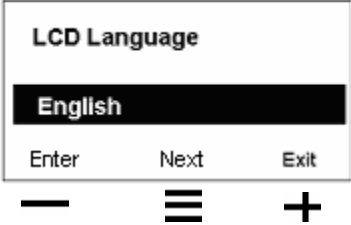
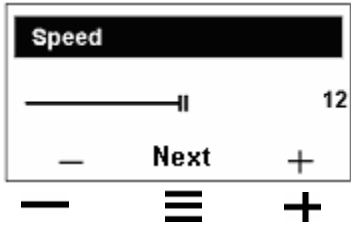





Steady

≡	—	+	Ribbon	Media	Description
Setting mode	Exit without saving	Save & exit			Ribbon & Media lights flash simultaneously
Darkness	-	+			Ribbon light flashes and then blinks for each pressing. The buzzer will beep when the adjustment reaches the maximum or minimal.
Speed	-	+			Media light flashes and then blinks for each pressing. The buzzer will beep when the adjustment reaches the maximum or minimal.
Direct Thermal / Thermal Transfer	DT	TT			Ribbon light blinks.
Stop Position	-	+			Ribbon light blinks and Media light flashes. The Media light blinks for each pressing and the buzzer will beep when the adjustment reaches the maximum or minimal.
Buzzer	Off	On			Media light blinks

LCD monitor

Press and hold  key about 3 to 4 seconds until the buzzer beep 3 times and LCD shows Setting mode. The LCD monitor will show different options on the bottom.

	<p>After entering to Setting mode, the first highlight on LCD monitor indicates the current item for setting.</p>
	<p>In setting type, the first line indicates the current item and the second line indicates current setting.</p>
	<p>In adjustment type, the first line indicates the current item and the second line indicates current value.</p> <p>Plus: press  key to increase the value</p> <p>Minus: press  key to decrease the value</p> <p>Next: press  key to go to next item</p>

Below are general descriptions of setting items.

Darkness	Default: 15 Set the darkness of printing result. The setting value is from 0 to 19 and the default value is 15.
Speed	Set the speed of printing.
Adjust Stop Position	Default: 0 Set the stop position of printing. The setting value is from 0 to 10. *Note: When printing with label format that is created based on old series printers, please change this setting to achieve the compatibility. Set the value to 3 when printing with cutter; set the value to 4 when printing with stripper or doing normal printing.
Printhead Position	Default: 0 Set the position of print head when printing. The setting value is from -100 to 100.
Printing mode	Default: Thermal Transfer Thermal Transfer: when printing, a ribbon must be installed to transfer the print contents onto the media. Direct Thermal: when printing, no ribbon is necessary; it only requires direct thermal media.
Option Setup	Default: Option OFF Strip Mode: turn on the stripper function Cutter Mode: turn on the cutter function Applicator Mode: turn on the applicator function None: select this to turn off the stripper and cutter functions.

Sensor Setup	Default: Gap paper Black Mark: for label or plain paper with black mark in the back Gap: for labels with liner and gap, or hang tags. The default is set to be gap paper. Continuous: for continuous paper
COM Port Set	Baud Rate: Default - 9600 bits 4800 bits 9600 bits 19200 bits 38400 bits 57600 bits 115200 bits
	Parity: Default - None Parity None Parity Odd Parity Even Parity
	Data Bits: Default - 8 bits 7 bits 8 bits
	Stop Bits: Default - 1 bit 1 bits 2 bits
Auto Sensor	Default: Auto Mode Auto Mode: auto sense the label type (black mark, gap & plain Mpaper) and length Gap Mode: detects gap paper Black Mark Mode: detects black mark label
LCD Language	Default: English English Simplified Chinese Traditional Chinese Spanish Italian Deutsch French Turkish
Code Page	Default: Code Page 850 Code Page850 Code Page852
Keyboard Setup	Default: US US UK French German Spanish Italian Finnish Dutch Belgian
Keyboard Mode	Default: Recall Label Recall Label : Recall label from memory card. Keyboard Setup : Setting the keyboard. Code page Setup : Setting the code page. Printing Option: Set the print quantity. Clock Setup: Set the clock and clock display. Exit KB Mode : Exit PS2 KB Mode.

Buzzer Setup	Default: ON ON OFF
Smart Backfeed	Default: ON ON: This function must install stripper or cutter. OFF
Password	Default: OFF ON: When password protect enable, the password is required for entering Setting Mode. OFF
Top of Form	Default: ON ON: Start each printing from the Top-of-Form position. OFF
Ethernet	Go to default: Set the IP address of Ethernet module to factory default setting.
Preview	Preview and check all settings.

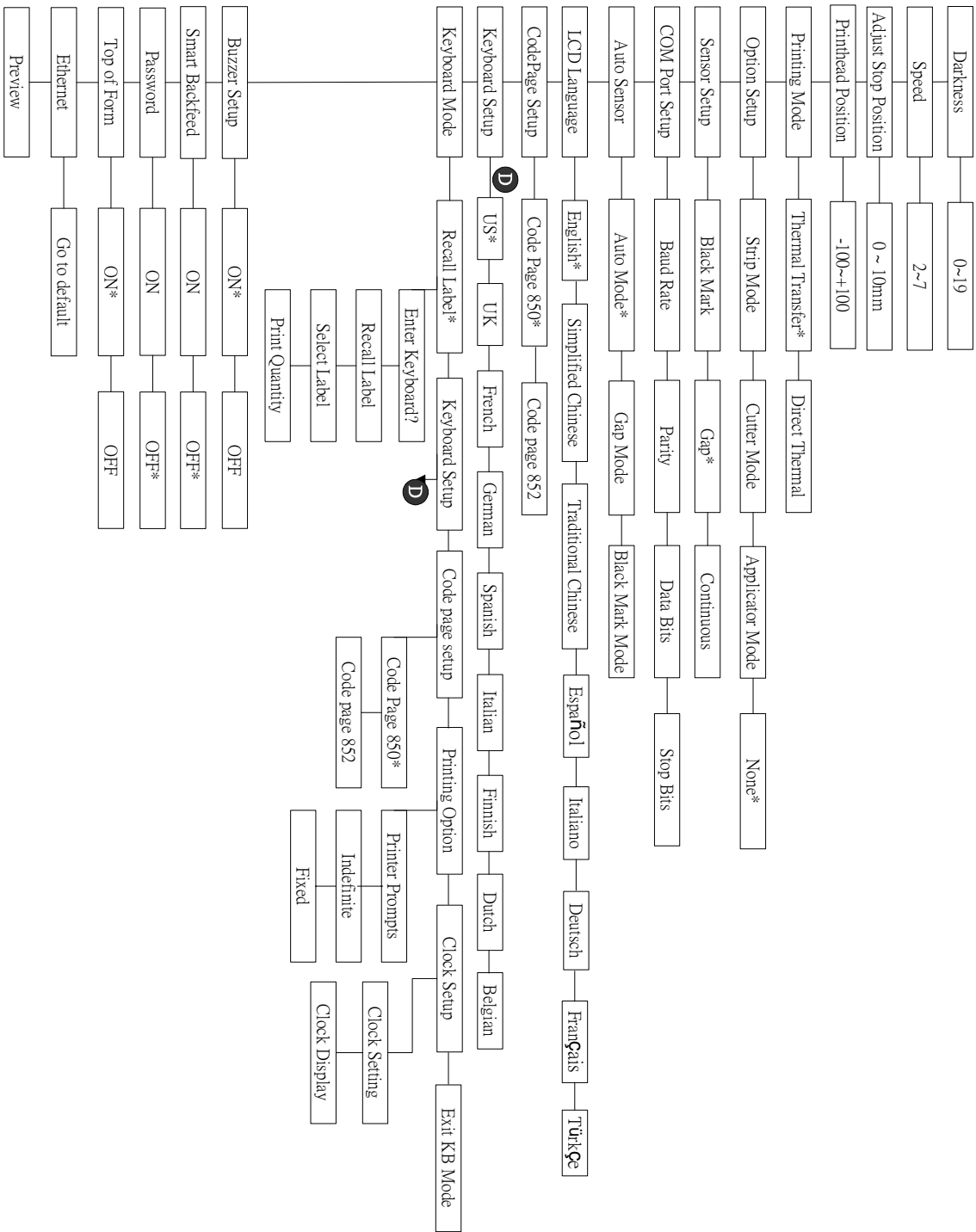
【Note 1】

“Default Setting” is the original settings from the factory, if other changes are made on the settings, then follow the new settings.

【Note 2】

Printer will store the previous settings after power off, thus if settings are to be changed again, please enter the Setting Mode to reset.

The diagram of Setting Mode

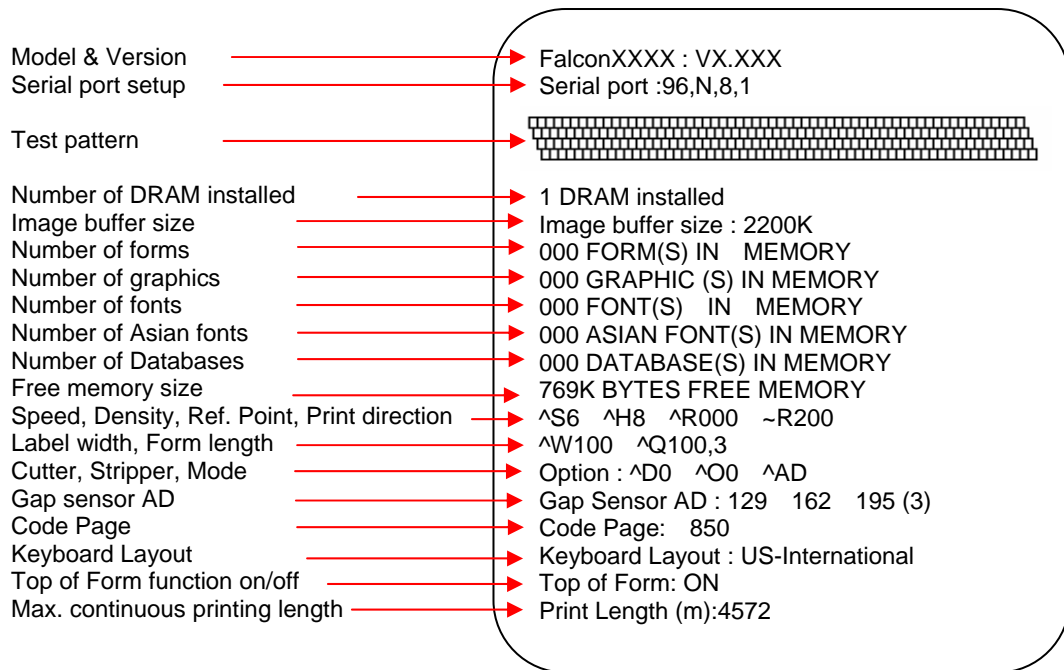


◆ Items with the "*" sign is default setting.

4-4. Self-Test

The Self-Test function will help user to check whether the printer is operating normally. In Self-Test Mode, the printer will print out a test sample each time when the FEED key is pressed. To break off the Self-Test procedure, please power off the printer. Below are the Self-Test procedures:

1. Power off the printer, press and hold the FEED key.
2. Power on the printer (while still holding the FEED key); release the FEED key after hearing 3 beeps.
3. After about 1 second, printer would automatically print out the following, and the LCD Display would show "Self Test." This means the printer is operating normally.



Self-Test includes the internal printer data setting.

4-5. Dump Mode

When label setting and the print result don't match, it's recommended to go into the Dump Mode to check whether there's a mistake in data transmission between the printer and the PC. For example, when printer receives 8 commands, yet without processing these commands, only printed out the contents of the commands, this will confirm whether the commands were received correctly. Test procedures to enter the Dump Mode are as follows:

1. Power off the printer, press and hold the FEED key.
2. Power on the printer (while still holding the FEED key).
3. When LCD Display shows "DUMP MODE BEGIN," release the FEED key. Printer will automatically print "DUMP MODE BEGIN." This means the printer is already in Dump Mode.
4. Send commands to the printer, and check to see if the print result matches the commands sent.

To cancel (get out of the Dump Mode), press the FEED key, this time printer will automatically print out "OUT OF DUMP MODE." This indicates that printer is back in the standby mode. Or power off to exit the Dump Mode.

4-6. Auto Sensing

Printer can automatically detect label (black mark paper) length and record it. By this way, without setting the print length, the printer can accurately detect the label (black mark) positions.

1. Check if the Moveable Sensor Mark is located at the right sensing position.
2. Power off the printer, press and hold the Pause key.
3. Power on the printer (while still holding the Pause key), after printer beeps 3 times and the LCD Display shows "Auto Sensing mode," release the Pause key. Printer will automatically detect the label size/length and record.
4. LCD Display shows the results of measurement.

Printer goes back to standby mode after displaying the measurement.

4-7. Error Messages

If problems occur that prevent the printer printing normally, the printer will beep as warning, and error messages will be displayed.



Quickly blinking







Slowly blinking



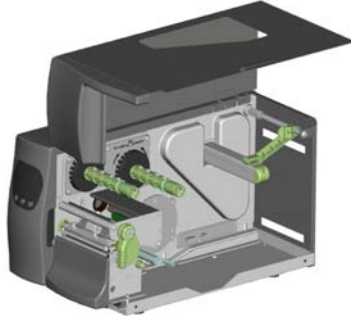
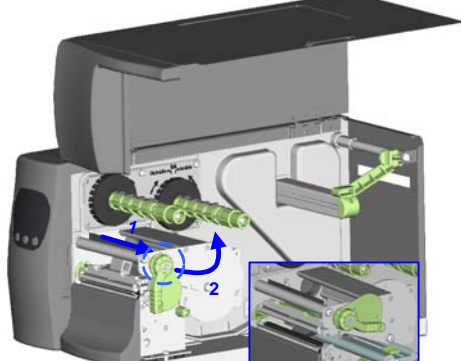
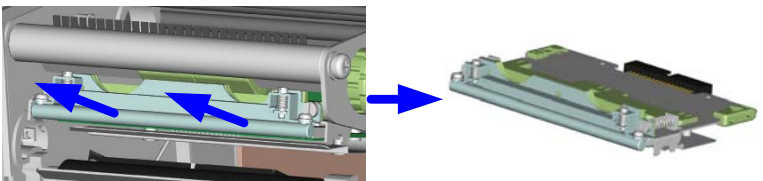
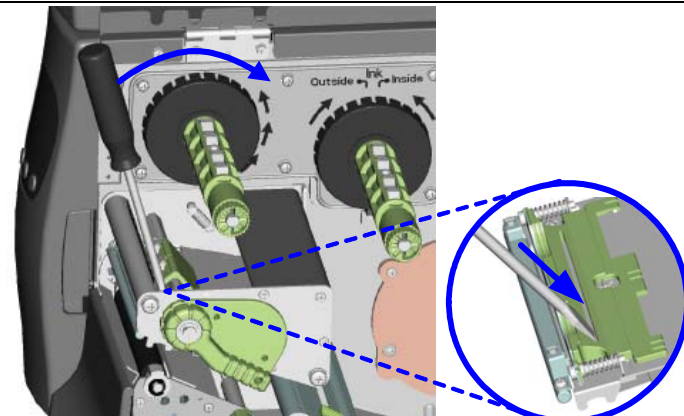
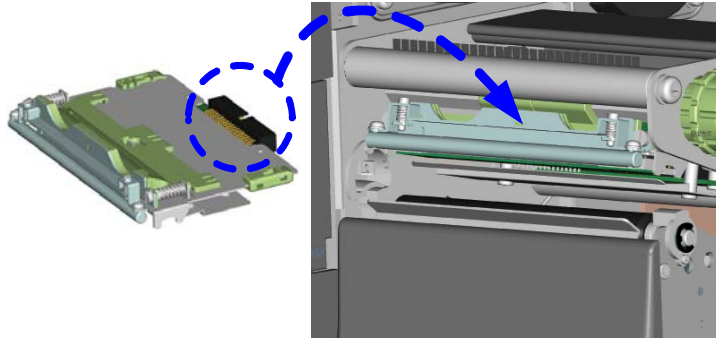
Light is on

LCD Message Display	LED Message Light			Beep	Description	Solution
	Ribbon	Media				
Print Head is opened			both lights are on	4 beeps twice	Thermal Print Head is not firmly closed.	Re-open the Thermal Print Head and make sure it is closed tightly.
Entering the Cooling Process			blinking simultaneously		Thermal Print Head temperature high.	Printer goes back to standby mode after cooling.
Out of ribbon or check ribbon sensor				3 beeps twice	Ribbon not installed, and printer shows error message.	Make sure the printer is in the Direct Thermal mode.
					Ribbons used up or ribbon supply shaft not moving.	Replace with new ribbon roll.
Out of media or check media gap sensor				1 beep twice	Unable to detect paper.	Make sure the movable sensor mark is at the correct position, if the sensor is still unable to detect paper, and then go through Auto Sensing again.
					Label used up.	Replace with new label roll.
Check paper setting				1 beep twice	Paper jam.	Possible causes: card tags, paper falling into the gap behind the platen roller, can't find label gap/black mark, black mark paper out. Please adjust according to actual usage.
CF Card not found			blinking simultaneously	2 beeps twice	CF Card is not formatted.	Please follow the instruction on Chapter 5-8 to format the CF Card.

Memory Full				2 beeps twice	Memory is full	Delete unnecessary data in the memory or use CF Card.
Rewinder Full				2 beeps twice	Rewinder is full	Remove the labels on rewinder.
Filename can not be found				2 beeps twice	Can't find the file	Use "~X4" command to print out all the files, then check whether the file exist and the names are correct.
Filename repeated				2 beeps twice	File name is repeated	Change the file name and download again.

5. Maintenance and Adjustment

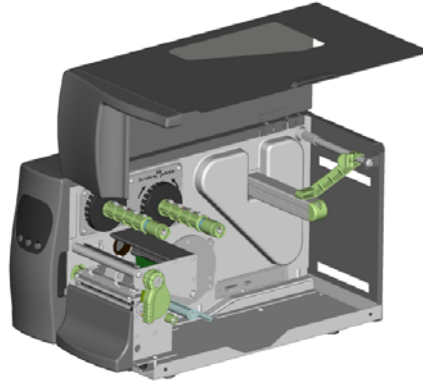
5-1. Print Head Module Installation / Removal Instruction

<p>1. Open the top cover.</p> <p>【Note】 Power-off when removing print head module.</p>	
<p>2. Pull the Print Head Lever out and flip it upward to the right.</p> <p>【Note】 When remove print head module, please dismount the cutter first.</p>	
<p>3. To remove the print head module, hold on the front of the print head module and pull it out.</p>	
<p>4. If user cannot successfully remove the print head by hand, the screwdriver can be used for assistant as the figure shows.</p>	
<p>5. To install the print head module, hold on the front of the print head module and slide down along the track. Align the male end (with protruding pins) with the female end (pin base) and push the print head module down.</p>	

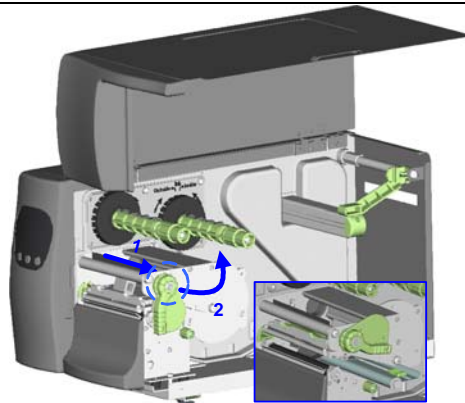
5-2. TPH Print Line Adjustment

Please contact your local dealer for technical support

1. Open the top cover.

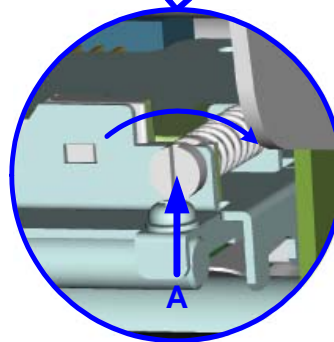
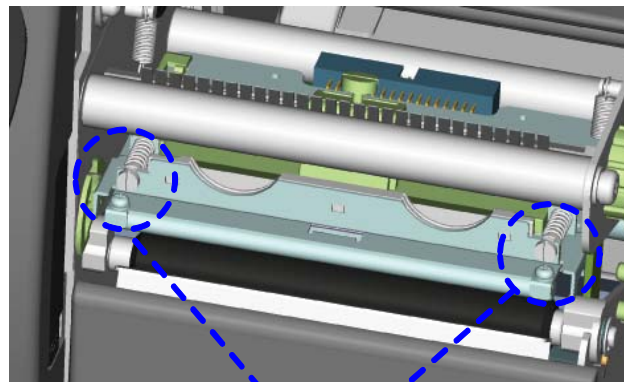


2. Pull the Print Head Lever out and flip it upward to the right.



3. TPH print line adjustment:

- ◆ When the printing is stiff or printing with thick paper, the print line needs to be moved forward (paper feed direction) in order to achieve better printing quality. Use a flat tip screwdriver, and turn the screws (A) clockwise to move the TPH forward
- ◆ TPH position adjustment for the left and right screws (A) need to be identical to make sure that the print line and the roller platen are parallel to each other.
- ◆ Turning the screws (A) one circle, the TPH will move 0.5mm. It is recommended to adjust by a quarter of a circle each time to fully control the printing quality and status.
- ◆ If the adjustment is failed, please slowly turn the screws (A) counterclockwise all the way to the end using a flat tip screwdriver. And redo the adjustment from the beginning.

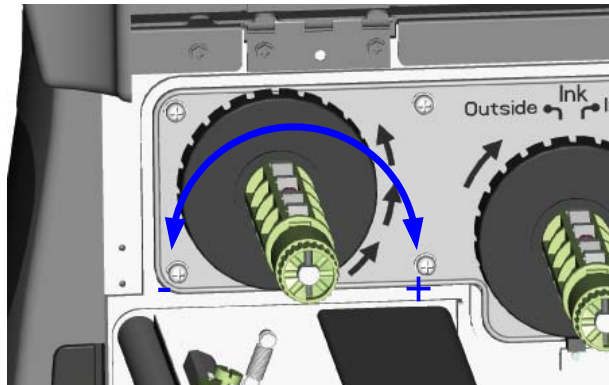


5-3. Ribbon Tension Adjustment

The ribbon shaft tension can be adjusted by turning the ribbon shaft knob clockwise or counterclockwise. There are 4 different levels of tension and marked with 1~4 on both knobs of Ribbon Rewind Shaft and Ribbon Supply Shaft. 1 represents the strongest tension and 4 is the weakest tension. When the tension is too weak to pull the ribbon, please decrease the tension of Ribbon Supply Shaft or increase the tension of Ribbon Rewind Shaft. To adjust the ribbon shaft knob, please push the knob inward and then start to turn.

If the ribbon wrinkles occurs during printing due to the differences of ribbon materials, please increase the tension by turning Ribbon Rewind Shaft Knob clockwise. (For more detail about the ribbon wrinkle problem, please refer to Chapter5-6)

If a narrower ribbon is used (especially when ribbon width is less than 2"), the printer might have problem to pull the labels. In this case, please decrease the tension by turning Ribbon Supply Shaft Knob counterclockwise. Moreover, the Ribbon Roll maybe difficult to be removed because of the shape-change that result from over-power tension. In this case, please decrease both tensions of Ribbon Supply Shaft and Ribbon Rewind Shaft by turning Knobs counterclockwise.



5-4. Thermal Print Head Cleaning

Unclear printouts (some parts of label cannot be printed) may be caused by dusty print head, ribbon stain, or label liner glue. Therefore when printing, it's necessary to keep the top cover closed. Also, check and prevent paper/label from being stained or dusty to ensure print quality and to prolong the print head life. Print head cleaning instructions are as follows:

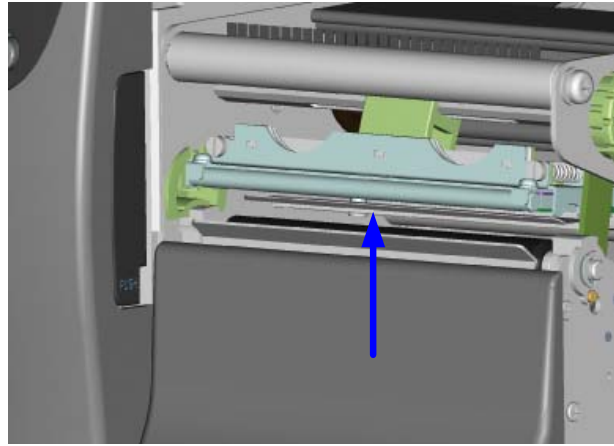
1. Power-off the printer.
2. Open the top cover.
3. Take out the ribbon.
4. Open the print head by lifting the Print Head Lever.
5. If there are label pieces or other stain on the print head (see blue arrow), please use a soft cloth with industrial use alcohol to wipe away the stain.

【Note 1】

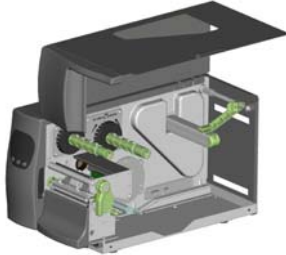
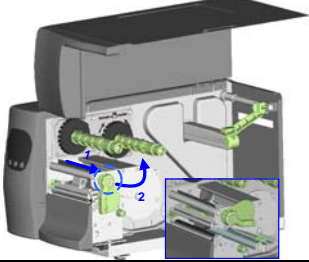
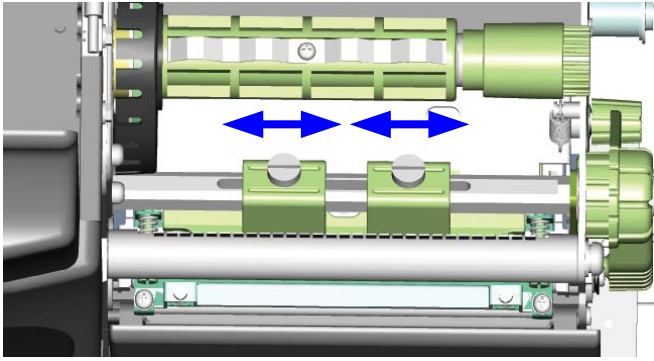
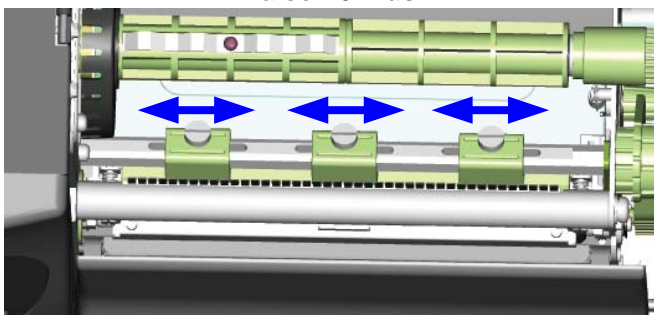
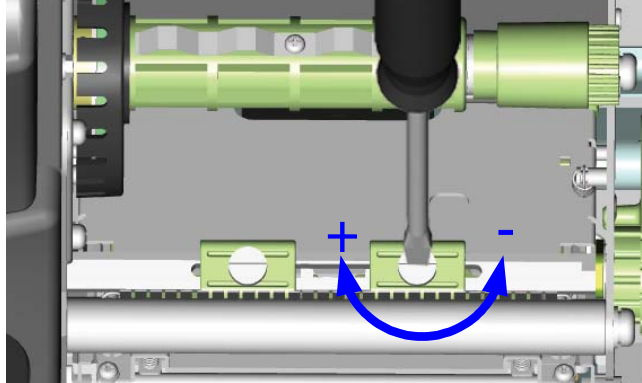
Weekly cleaning on the print head is recommended.

【Note 2】

When cleaning the print head with soft cloth, make sure there is no any metal or hard particles attached on it.



5-5. Print Head Balance and Pressure Adjustment

<p>1. Open the top cover.</p>	
<p>2. Pull the Print Head Lever out and flip it upward to the right.</p>	
<p>When printing with different label materials or using different ribbon types, unbalanced print quality may occur due to the media material differences. Moreover, when one side of the printout is not printed clearly or ribbon wrinkle occurs, it's necessary to adjust the position or pressure of TPH Spring Box.</p> <p>3. Move the TPH Spring Box as showed on the figure to change the print position. Normally, the wider the paper, the right-TPH Spring Box is farther to the right (out); the narrower the paper, the right-TPH Spring Box is farther to the left (in).</p> <p>If the problem is still not solved, please move to next step to adjust the pressure of TPH Spring Box.</p>	<p>Falcon 4 Plus</p>  <p>Falcon 6 Plus</p> 
<p>4. To adjust the TPH Spring Box pressure, use a flat tip screwdriver to turn the screw clockwise to increase the pressure; counterclockwise to decrease the pressure.</p>	

5-6. Ribbon Shield Adjustment

1. Due to the differences in the ribbon materials, if ribbon wrinkles occur during printing, please adjust the ribbon shield screw.

Example: If ribbon wrinkles occur as (a), please turn the ribbon shield screw A clockwise, and if ribbon wrinkles occur as (b), please turn the ribbon shield screw B clockwise.



(a)

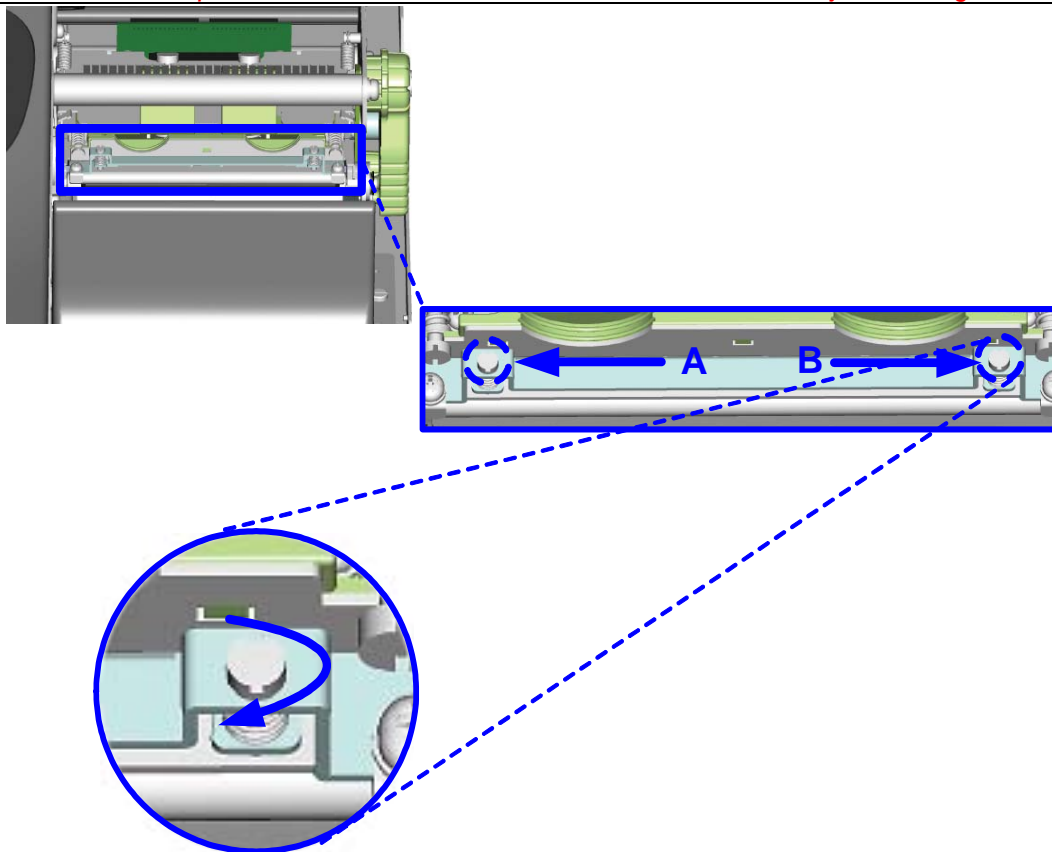


(b)

2. It is recommended to adjust by a half of a circle each time to fully control the printing quality and status. Perform the printing test after adjustment, and if a ribbon wrinkle has not been removed, please perform the adjustment one more time. Each adjustment on the screw can not be turned more than two circles.

【Note】

If the screws are turned more than acceptable range, then paper feed may not be smooth. In this circumstance, please restore the ribbon shield screws and do the adjustment again.

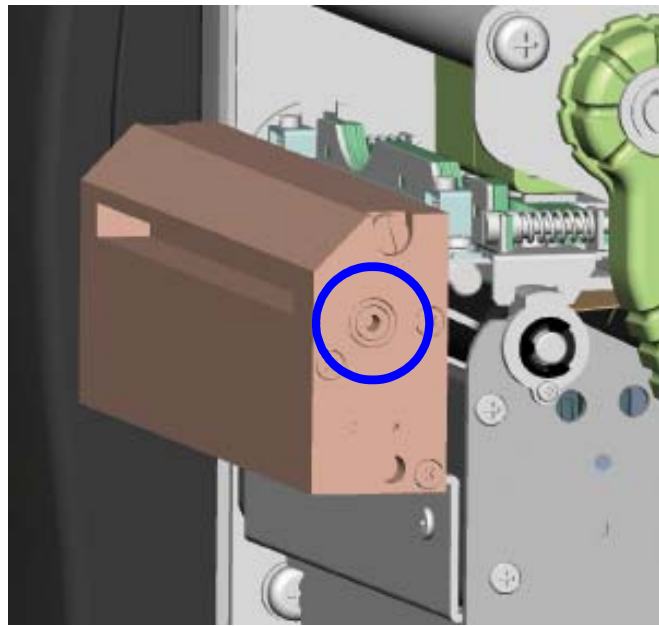


5-7. Adjust the Cutter

1. The cutter-adjusting hole is on both sides of cutter.
2. The cutter will not work properly if there is a paper jam. Please power off the printer and use a 3mm hexagon screwdriver to insert into the hole.
3. Turn the screwdriver clockwise to remove the jammed-label.
4. After the jammed-label is removed, power on the printer again. The cutter will reset automatically.

【Note】

The label / paper used for cutting is suggested to be at least 30mm in height.



5-8. CF Card Instruction

All the Falcon 4 Plus and Falcon 6 series models have built-in CF Card slot on the back of the printer. If the built-in memory is insufficient for storing label formats, graphics or fonts, users can use CF Card as external memory to provide more memory space.

When using the CF card, please follow the instruction as below:

1. Please power off the print before installing or removing CF Card from the card slot.
2. The CF Card cannot be used for printer's external memory until it is formatted in FAT16. When the printer has detected that the CF card is not formatted in FAT16, the LCD will show the message of "CF card not formatted, press FEED to format".
3. If user wants to format the CF Card, please follow the instruction to press the "FEED" key, and then the printer will format the CF Card in FAT16.
4. After the format is complete, a file folder named "CF" would be created automatically. This folder is for storing all the data from the printer, please don't do any change on it.
5. The specification of CF Card that is supported by the printer is as follow:
 - Compact Flash Type I
 - Compact Flash (CF) v1.4 specification
 - Capacity: 128MB ~ 1GB
 - File system: FAT16

5-9. Troubleshooting

Problem	Recommended Solution
LCD Display shows no message after power on the printer	<ul style="list-style-type: none"> ◆ Check the power cable
LED light indicates error messages after printing stops	<ul style="list-style-type: none"> ◆ Check for software setting or program command errors ◆ Replace with suitable label or ribbon ◆ Check if label or ribbon is all out ◆ Check if label is jammed/tangled up ◆ Check if mechanism is closed (Thermal Print Head not positioned correctly) ◆ Check if sensor is blocked by paper/label ◆ Check for abnormal cutter function or of no actions (if cutter is installed)
Printing started, but nothing was printed on the label	<ul style="list-style-type: none"> ◆ Check if label is placed upside down or if label is not suitable for the application ◆ Select the correct printer driver ◆ Select the correct label and print type
When printing, label is jammed/tangled up	<ul style="list-style-type: none"> ◆ Clean the label jam, and if label is stuck on Thermal Print Head, please remove it by using soft cloth with alcohol.
When printing, only part of the contents were printed	<ul style="list-style-type: none"> ◆ Check if label or ribbon is stuck on the Thermal Print Head ◆ Check if application software has errors ◆ Check if start position setting has errors ◆ Check if ribbon has wrinkles ◆ Check if ribbon supply shaft is creating friction with the platen roller. If the platen roller needs to be replaced, please contact your reseller for more information ◆ Check if power supply is correct
When printing, part of the label wasn't printed completely	<ul style="list-style-type: none"> ◆ Check if Thermal Print Head is stained or dusted ◆ Use internal command "~T" to check Thermal Print Head can print completely ◆ Check the media quality
The printout is not in desired position	<ul style="list-style-type: none"> ◆ Check if sensor is covered by paper or dust ◆ Check if liner is suitable for use, please contact reseller for more information ◆ Check if label roll edge is aligned with Label Width Guide
When printing, page skipping occurs	<ul style="list-style-type: none"> ◆ Check if error occurs on label height setting ◆ Check if sensor is covered by dust
Unclear printout	<ul style="list-style-type: none"> ◆ Check print darkness setting ◆ Check if Thermal Print Head is covered with glue or stain
When using cutter, label wasn't cut straight	<ul style="list-style-type: none"> ◆ Check if label is set up straight
When using cutter, label wasn't cut successfully	<ul style="list-style-type: none"> ◆ Check whether label thickness exceeds 0.16mm
When using cutter, label couldn't feed or unexpected cutting occurs	<ul style="list-style-type: none"> ◆ Check if cutter is installed properly ◆ Check if Paper Feed Rods are sticky
When using stripper, the function is not working correctly.	<ul style="list-style-type: none"> ◆ Check if stripper sensor is covered with dust ◆ Check if label is installed properly

【Note】

Your dealer is knowledgeable about Falcon Plus printers, printing software, and your unique system. Please contact your local dealer for technical support.